

# Starchroom

## LAUNDRY JOURNAL

First in the Laundry Industry

### GUIDEBOOK ISSUE OF THE LAUNDRY INDUSTRY

Higher profits through greater production and lower labor costs are featured in a series of case histories in this issue of the STARCHROOM GUIDEBOOK.

Also included are data on production standards and engineering plus an up-to-date buyers' guide with a classified directory list of manufacturers and trade names.

51

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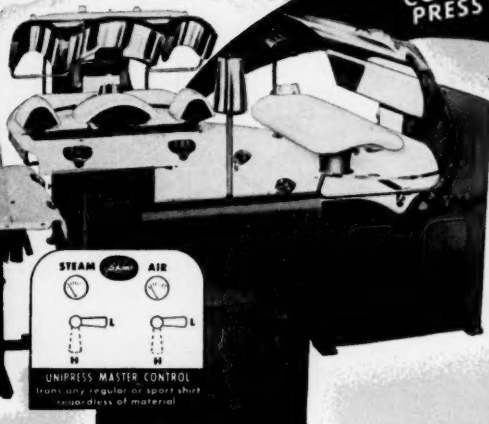
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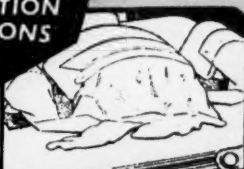
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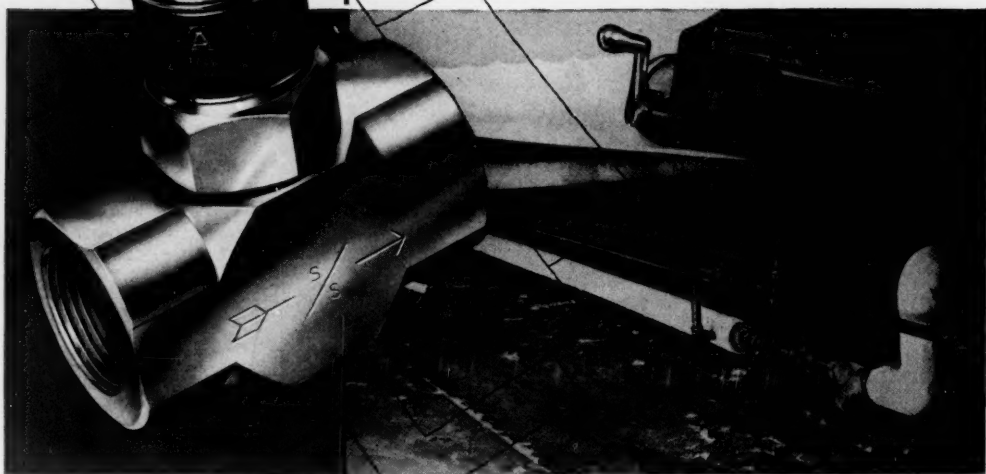
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**with CASCADE Automatic Unloading Washers  
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Progressive management of DuRite Laundry mechanized their washroom with three 42x96" AMERICAN CASCADE Automatic Unloading Washers equipped with CASCADE Full-Automatic Washing Controls. These modern, high-production washers now turn out 40% more work, with only 3 men, than was formerly produced with 6 men.

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- \$1,000 saved annually on water.
- 30% saved on supplies.
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The big reason for these remarkable savings is that the CASCADE Automatic Unloading Washer with Full-Automatic Control produces more loads per day of better quality washing with less manpower, and with less water and supplies.

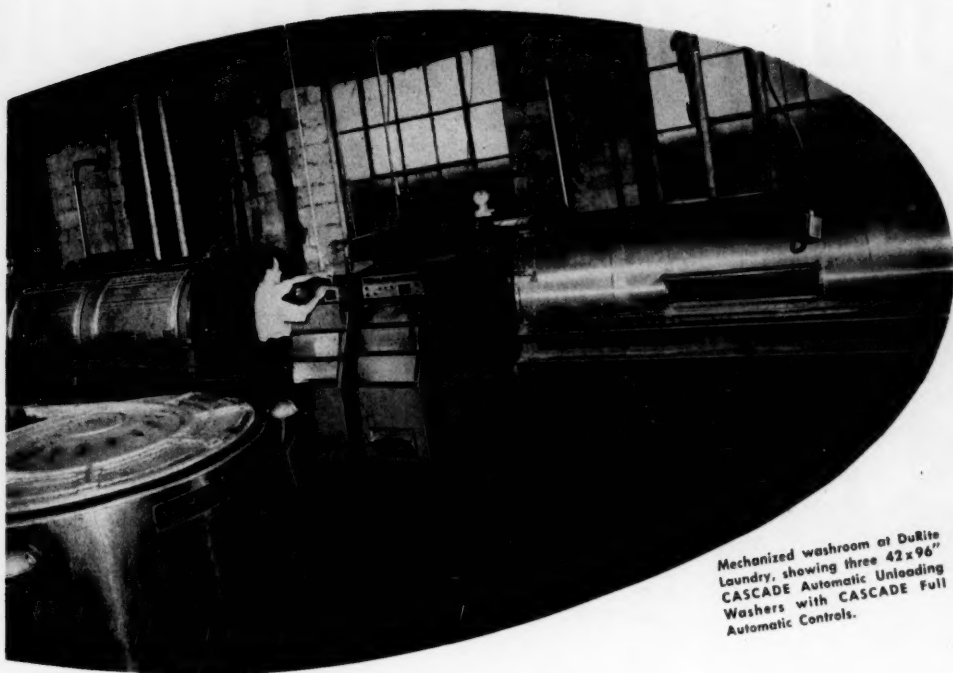
Merely pushing buttons empties the entire washer load automatically . . . in less than a minute . . . Less down time for unloading means more pay loads per day . . . No manual labor required to "pull" loads by hand . . . enables smaller washroom crew to get out more loads with less effort . . . boosts employee morale . . . reduces labor turnover. And CASCADE's open-pocket, full drop cylinder with famous "Two-Way Washing Action" assures top quality, thoroughly clean washing in shortest possible time with less water and supplies.

The CASCADE Full-Automatic Control takes washer through the complete load cycle, from first to last bath, without any operator attention . . . immediately proceeds from one bath to next without wasting time waiting for operator to return to washer . . . No lost time between loads increases number of washer loads per day . . . Control adds supplies automatically in accurately measured amounts . . . measures bath levels and regulates bath temperatures automatically, with no chance of human error . . . Assures "management-controlled" quality every load.

NOW is the time to make the added profits that only fully automatic washers can give you. Ask your AMERICAN Representative to show you more case histories, and tell you where you can visit laundries near you that are making sensational savings with AMERICAN CASCADE Automatic Unloading Washers with Full-Automatic Controls.



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LAUNDRY MACHINERY CO.**  
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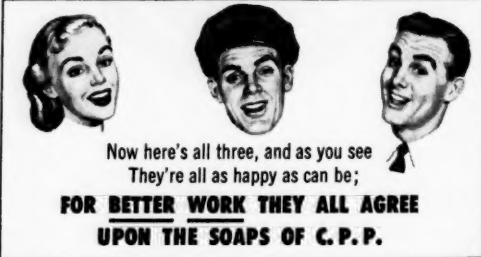
Here's Mrs. Wright,  
who used to fight  
Because, she said, her  
clothes weren't white . . .  
She'd been the laundry's  
biggest friend,  
Until she said,  
"This is the end!"



Here's Driver Will,  
who used to chill  
Each time he brought the  
Wrights their bill,  
Because he'd seen  
the work and knew  
That Mrs. Wright  
was right to stew!



Here's Mr. Ross,  
the laundry boss;  
He faced the facts—  
and faced a loss  
Until he learned  
the reason was  
His "SOAP-STARVED"  
Washing Formulas!



Now here's all three, and as you see  
They're all as happy as can be;  
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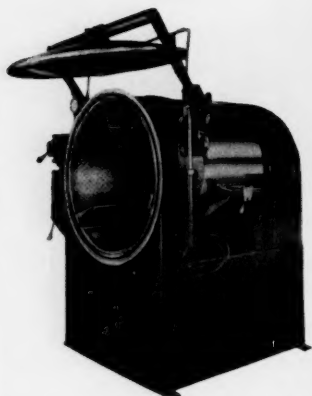
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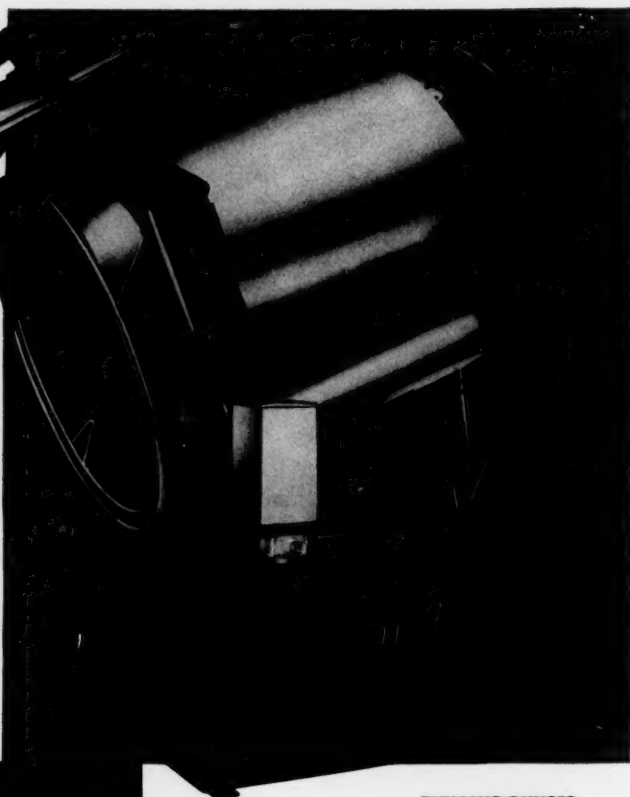
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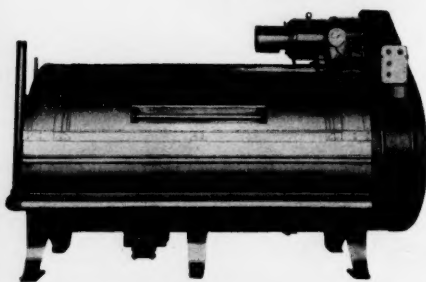
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Now . . . get better quality work at an even greater saving in soap costs. Now—by replacing 25 to 50 percent of the high-priced soap in your formula with NYTRON—you save money and get better results in the bargain. Formulas containing NYTRON provide better and more rapid soil removal, improved suspension of soil, faster and more complete rinsing.

NYTRON can offer you these advantages be-

cause it has an exclusive combination of properties . . . a combination available in no other detergent. This patented wetting agent-detergent is not an alkali, not a soap, not a mixture. NYTRON works well in hard or soft, in hot or cold water; it provides exceptional detergency at low concentrations. And NYTRON saves you money . . . it will bring down the cost of your formula and improve the quality of your work!



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NYTRON does an outstanding job on woolens . . . it combines complete safety with exceptional cleaning ability. It leaves the fabric with an unusually soft, springy "hand" because it cleans effectively and rinses completely even in cool or cold water.



### Wet Cleaning Rug Washing Maintenance Cleaning

NYTRON's exclusive combination of properties provides great versatility for a wide range of laundry cleaning jobs. It gives outstanding results in wet cleaning and rug washing . . . use NYTRON also for general maintenance cleaning on floors, walls, windows, delivery trucks.



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Substantial savings in classification time and special wheel loads can be achieved by the use of the NYTRON-Sour formula for the washing of synthetic fabrics and fugitive colors. Synthetic fabrics and fugitive cottons can be washed thoroughly, safely and economically in the same wheel with a combination of NYTRON and laundry sour.



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#### **you get more wear**

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#### **you get more value**

The tough Bulldog Nylon Nets are light, water resistant and permit up to 28% more pay load in the wash wheel. They save 15 to 20% in wash room supplies, power and labor.

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Through our method of sewing the nets no threads in the seams are exposed to abrasion, less chance of bundles being mixed up in the wheels. Hundreds of laundries use Bulldog Nets year in and year out. Bulldog Nylon Nets are your best bet for economy.

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All white,  
Green, Blue,  
Red

#### **SIZES**

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## **NYLOTEX PRESS COVERS AND PRESS CLOTH**

Made of spun nylon filler with 260-17 filament nylon warp finished with the durable tough Bulldog resin finish. Available in made-up press covers or in 54" width put up on 60 to 70 yard rolls.

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Made of heavy double duty spun nylon also finished with the durable tough Bulldog resin finish. Available in made-up press covers or in 44" width and 54" width put up on 60 to 70 yard rolls.

\*A new name for Permatex in recognition of its outstandingly superior quality, strength and wear resistance.

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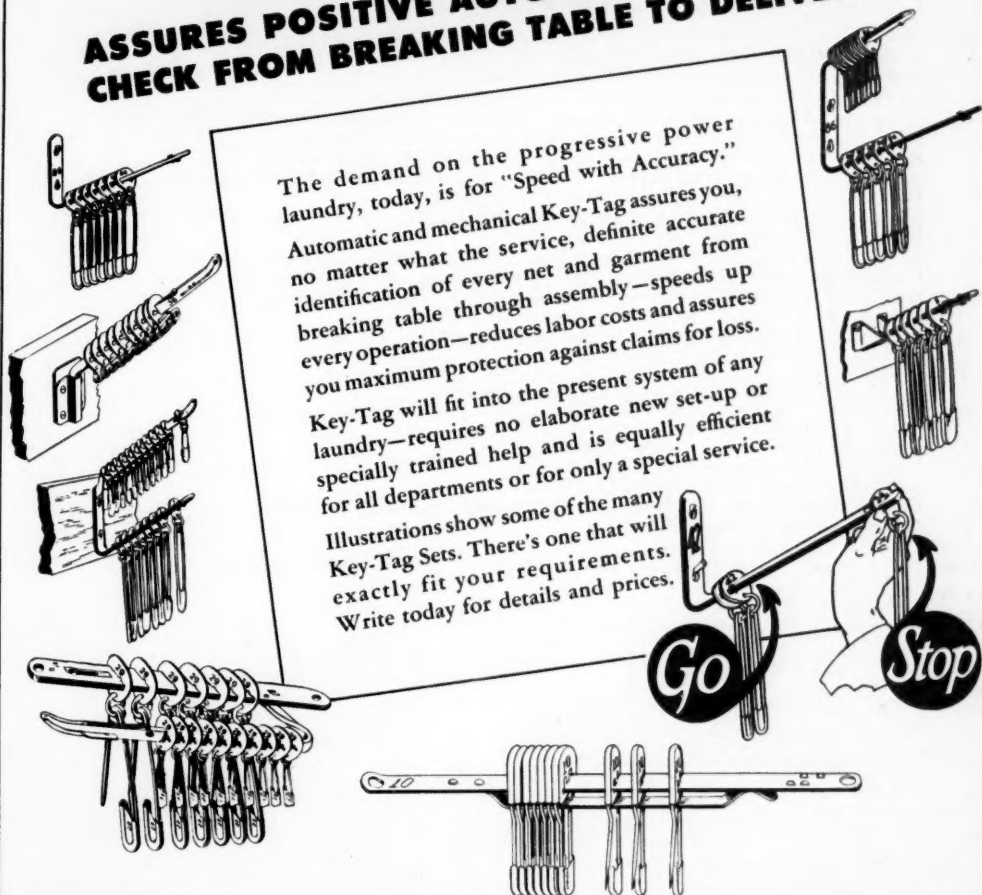
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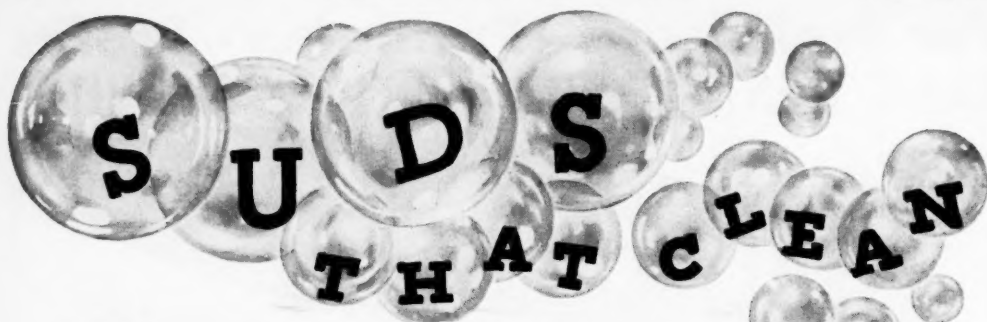
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NAPSO 40	High		X			X		
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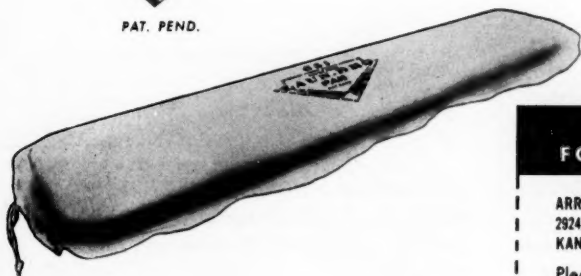
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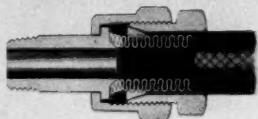
Packless manufactures and stocks every type of flexible metal hose unit required for all the various pressing machines now in use.

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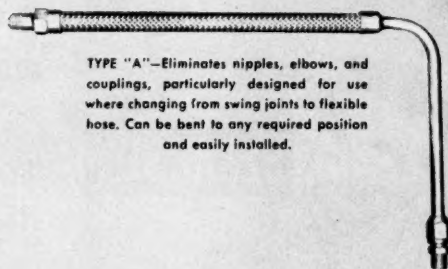
Packless Flexible Metal Hose units are available in two constructions to satisfy every user; one with detachable fittings applied to the hose by mechanical means, the other with fittings brazed at each end.

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Illustrated is type BD with Male Detachable Coupling each end.  
Also available with flanges one end or both ends.



Cross section view of the Packless Mechanical Coupling, showing the positive leakproof seal that is made without use of solder or application of excessive heat.

**STANDARD UNITS WITH BRAZED FITTINGS**

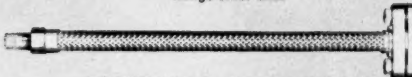
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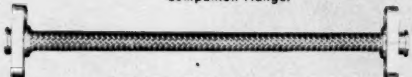
TYPE "B"—Male couplings each end.



TYPE "C"—Male coupling one end, floating flange other end.



TYPE "CC"—Unit as above, complete with Companion Flange.



TYPE "D"—Floating flange each end.

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Packless Metal Hose units are available for pressing machines in all sizes from  $\frac{1}{4}$ " I.D. to  $\frac{1}{2}$ " I.D. with fittings as required. For further information send for the **PACKLESS**

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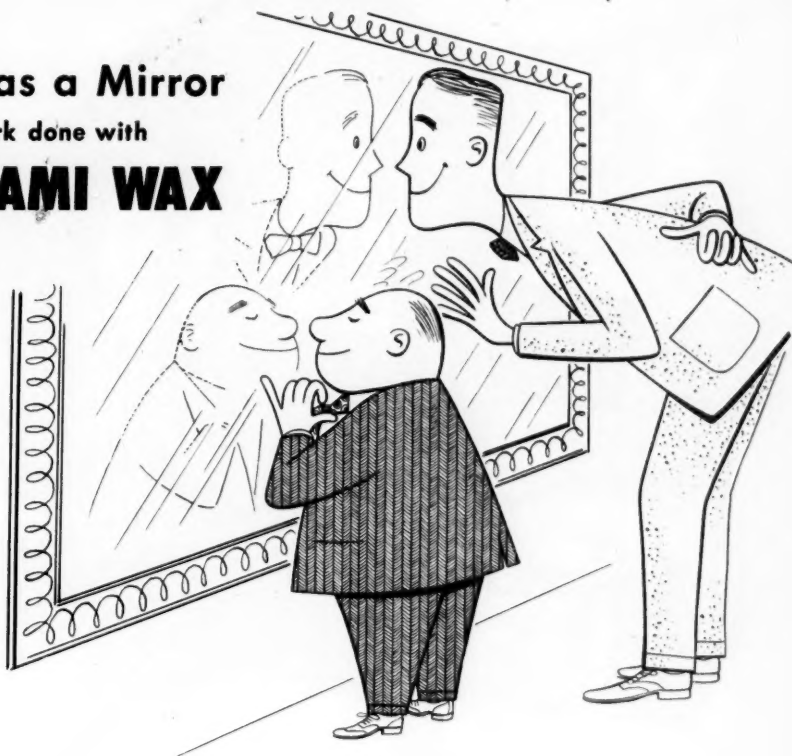
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# Satinette

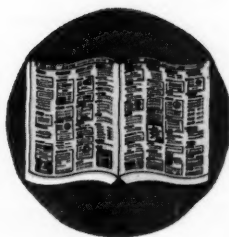
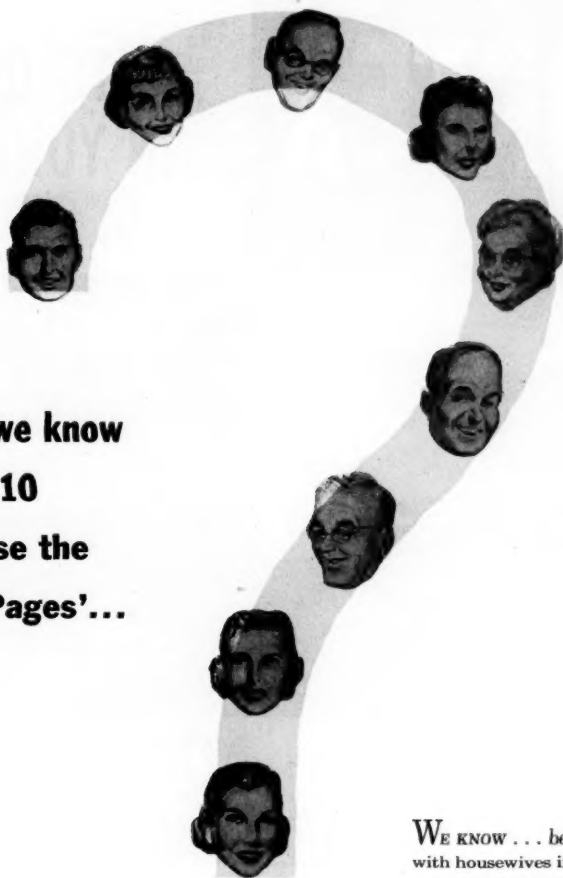
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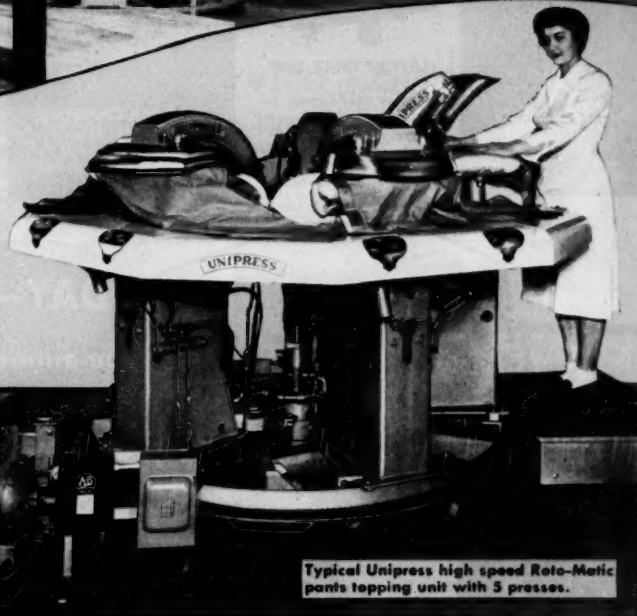
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- Saves floor space
- Easy operator training
- Speed may be regulated to conform to operator efficiency

ROTO-MATICS accommodate any type or size press to meet all linen supply requirements. Write today and tell us your problems. Let experienced Unipress Engineers help you step up your production 45% to 65%.



Typical Unipress high speed Roto-Matic pants topping unit with 5 presses.

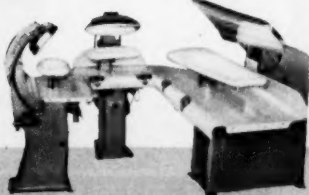
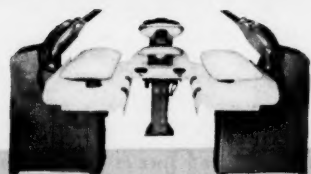
## WORK COMES TO OPERATOR

REVOLUTIONARY NEW PRINCIPLE . . . INCREASED PRODUCTION of high quality garments is now possible when using Unipress Roto-Matics. Some report 82 or more quality garments per hour per operator and a smooth-flow production line. The operator does not rush from press to press. Instead the garments come to the operator who stands at one location. Tiresome walking is eliminated. Fresh operators step up production.

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# BISHOP *Laundry* WORK-SAVERS

Cut costs—boost production and profit—give lifetime service



**LIQUID SOAP MAKER**

Saves time and supplies. Fully steel in 3 sizes: 30, 60-gal., 100-gal.



**LIFETIME TRUCK TUBS**

Monel or stainless steel. No rust, corrosion. In 3 sizes: B2-5 (#2) 22"x34"x25" deep; B2-13 (#3) 26"x36"x25" deep; "Junior" B2-121M 18"x24"x15".




**STARCH COOKERS**

All copper, double-walled, permanently insulated. In 15, 25 and 50 gallon sizes.




**SORTING REEL**

Assemble 25 bundles (150 nets) in 5 minutes in 10' x10' area. No. B12-2.



**MONEL PREPARATION TRUCK**

Ideal damp box, 18' x25' x11' deep, 34' high, on 3" wheels. No. B2-122.



**IRONING BOARD**

Steel top; iron rest; sponge cup; cord holder; fold light assembly, and wave board. No. B4-5M.




**BISHOP SHIRTRANSPORTS**

Cut handling time. Fold to save space. All steel. In 2 sizes: B29-50 (for 50 shirts); B29-100 (100 shirts).



**BIN TRANSFER-TRANSPORTERS**

Shirts, fixed bins, admit light, air, 15 or 20 bins of shirts, for apparel. Write for details, prices.




**BISHOP PUF-FINISHERS**

Heads tilt over board; no reaching. B5-18X (shown); #3, #22, #52 heads, spray iron, spray gun.



**EVOLVING SORTER**

Sort bins in arm's reach to sort twice as fast in half area. Turns or flick of finger; holds 500 shirts. Don't tip. No. B26-10.



**REVERSIBLE BINS**


Sort into one side, wrap out on other. Cut steps, handling 15 or 20 bins per side. Ask for details.

**TODAY—and FOR 56 YEARS**

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STARCH COOKER



*It's Scientifically Insulated*

Inner and outer walls scientifically spaced and insulated to prevent heat radiation and sweating.

*Now Available in Stainless Steel*

Non-corrosive; finest of all metals for cooking; assures long years of service.

*It Retains Heat*

For proper penetration starch must be kept at right temperature. The Bishop Cooker holds heat as long as needed.

*It Cooks Fast*

Exclusive steam nozzle keeps starch agitated, stirred, speeds cooking.

*It's Easier to Produce Beautiful Finishing with Cooked Starch!*

Cooked starch dries faster and more uniformly on the press to save costly time... produces shirts with a better "feel" and smoother finish, more economically.

### 3 POPULAR SIZES

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25-GALLON — 39" high over-all; floor space 28" x 32"; B3-5, \$289.00

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## Starchroom Editorial

### Are You Listening?

Every day someone in your plant talks with a good customer or prospective customer on the telephone. Before many weeks go by almost every one of your customers will have had occasion to talk over the phone to someone in the plant at least once.

How are you treating these customers and prospects? If you don't know, it's important that you find out because you *may* be driving them away by the score.

Back in July we published a story entitled "Diaper Group Unveils Telephone Training Program" in which we described a new service offered by the Diaper Service Institute of America to its members. The story told of a visit to a Philadelphia diaper plant where we saw the training program in operation.

We pointed out that there is no way in which any business can make an accurate check on the number of customers lost or jeopardized every day by improper telephone techniques. In the laundry industry, or any of the service industries, where customer turnover is such a vital factor in the success of the business, management cannot afford to run the risk of losing *any* customers due to faulty telephone procedure. Telephone training should be an integral part of the overall sales program of every laundry.

Since the time of our visit to the Philadelphia plant we have been more conscious of our own telephone manners than we would normally be. Also, we have been particularly alert to note the kind of reception we have received from the party on the other end of the line. As a matter of fact, we went as far as calling our own laundry anonymously, on the pretext of other business, just to find out how we would be received. (A dirty trick, eh?)

It's too bad that the American Institute of Laundering doesn't offer its members such a training program. They may be planning one. If so, we haven't heard about it. Whether they are or not, a laundry that does not have some sort of a program should consider starting one. There is probably no public relations program which can be instituted at less cost with a higher return in customer goodwill.

The foundation on which to build a simple program is available to every telephone subscriber. The diaper group includes in their program two booklets—"You and Your Telephone" and "Telephone Courtesy"—both made available to them through the courtesy of the Bell Telephone Company of Pennsylvania. The same or similar booklets can be secured from the business office of any of the operating companies of the Bell system. Most of these companies will loan training films on proper telephone techniques to their subscribers too.

The showing of such a film at a meeting of all employees could serve as an effective inauguration of the program. Weekly or monthly review of the contents of the booklets could be the follow-up procedure. With a little imagination, a simple quiz based on questions taken from the film and the booklets could be devised. In this way, each employee would be stressing his own shortcomings and would know what to do about them.

Such a program should also stress the importance of *selling* by telephone. When a prospective customer calls, it's up to the employee to be on her toes to *sell* her on

your services. To do this she must be thoroughly acquainted with all the fine points of that service.

Messages for route salesmen must be accepted with the assurance to the customer that they will be delivered. After such assurance is given, the customer shouldn't be let down. The message *must* be delivered.

If you don't have such a program, why not consider starting one this fall?

### Self-Service Laundries

The laundry and drycleaning industries each account for one-seventh of the total sales of all the service industries in the country. This and other interesting facts are revealed by the Census of Business for 1948 conducted by the Department of Commerce.

For the first time self-service laundry establishments are classified separately in such a census report. Consequently, many new figures of interest concerning this type of competition are available to laundryowners.

Laundry services ranked second only to the automobile repair industry in annual sales volume among all personal, business and repair service industries. Drycleaning, pressing and repair services ranked third in this classification of industries.

According to the census, there were 19,182 laundry establishments in the country in 1948. They accounted for a total sales volume in that year of \$1,257,987,000. Included in that figure are 10,839 hand laundries with sales of \$80,861,000. The bulk of the washing for these establishments was done by commercial power plants.

Perhaps the most significant facts to laundryowners revealed by the census concern self-service laundries and their relationship to the industry. They ranked seventeenth among the nation's service industries. There were 8,523 self-service laundry establishments and they accounted for a total sales volume of \$65,409,000.

Thus, while it is true that the number of self-service laundry establishments is about 44.5 percent of the number of power laundries, it is interesting to note that the total sales volume of these establishments is less than 5.5 percent of the sales volume of the power laundries. Also, the total number of self-service establishments is less than 78 percent of the total number of hand laundries. These hand laundries do almost 15.5 million dollars more in sales per year than do the self-service establishments. Hand laundries have been competing with the power laundry industry for quite awhile!

These facts should go a long way toward giving us all a proper perspective, or sense of proportion, in truly evaluating the size of the self-service laundry industry in relation to our own. In so doing, they should dispel much loose talk going the rounds of our industry and they should enable all of us to think more clearly when making plans for the future.

We do not mean to imply that the self-service laundry industry has not been an actual threat to our own. Nor do we mean to imply that it isn't still a threat and won't continue to be one. We do think that many people in our industry have been inclined to view the threat in a spirit of despair or panic rather than one of meeting competition with well thought out counter-measures of their own.

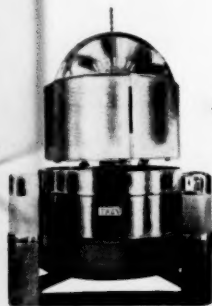
# Follow the Practical Path to Profits with



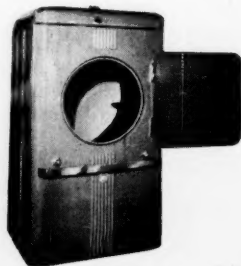
## TROY ELECTROMATIC *"Slide-Out"* WASHERS

These streamlined stainless steel washers produce cleaner work in less time and with less labor. Except for the feeding of supplies, each washing operation is automatic. Available with open pocket cylinder or with famous TROY "Slide-Out" feature for easy unloading. Slide-Out cylinder stops with load on waist-high partition where a scoop of the arm slides clothes out. Washer sizes: 30" x 30", 30" x 48", 42" x 36", 42" x 54", 42" x 84", 42" x 96".

**TROY ELECTROMANUAL WASHERS**—Similar in construction, appearance and performance, but without automatic features, these washers are built in the same sizes as Troy Electromatics. Also available with labor-saving TROY "Slide-Out" feature.



◀ **TROY LAUNDRY EXTRACTORS**—Troy makes a complete line of laundry extractors in all popular sizes. Bottom unloading Troy 54" Olympic (illustrated) completely eliminates manual unloading. Patented "center-slung" suspension gives smooth operation even with out-of-balance loads. Olympic sizes: 50" and 54". Troy 40" and 48" Atlas Extractors also have "center-slung" suspension. Troy Super-Mercury is only 48" extractor built which operates at amazing speed of 1000 revolutions per minute without shaking the curb. Troy 20" and 30" Minute Man Extractors are ideal for handling small loads. Stainless steel basket, automatic brake and timer and "V" belt motor drive standard for all models. Safety cover standard on Troy Minute Man, Atlas and Super-Mercury Extractors.



## TROY ROCKET PRESSES ▶

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## TROY OPEN END DRYING TUMBLER ▲

Increased capacity and faster drying are features of modern, compact Troy Open End Tumblers. They have adjustable heat control and are equipped with a light which signals operator when load is dry. Size: 36" x 30".

# TROY'S *Complete Line*



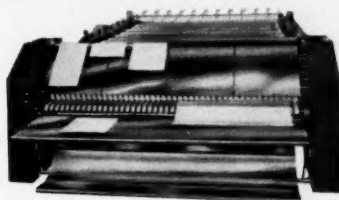
## TROY FLEXIMATIC FOLDER ▶

Automatically measures and folds linens from 20" to 120" wide and 24" to 108" long. Individually motor driven and can be used with any standard flatwork ironer without alterations to the ironer.

**TROY FOLD-FAST FOLDER** — Completely eliminates hand folding. Automatically folds, stacks and counts small pieces direct from any standard flatwork ironer. Folders can be installed

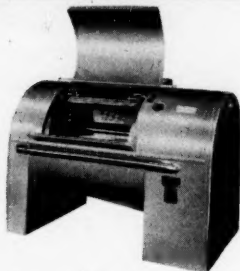
## ◀ TROY FLATWORK IRONERS

These "V" belt motor driven ironers are economical to maintain and have exceptionally large capacities for the floor space occupied. Ironer sizes: 2-roll, 4-roll, 6-roll, 8-roll.



in groups of 2, 3, 4 or 5 or as single units. Standard model handles linens up to 18" x 36". De Luxe model takes work up to 24" x 36".

## FOR GREATER DRYCLEANING PROFITS... *Modern* TROY DRYCLEANING EQUIPMENT



## ◀ TROY ELECTROCLENE WASHERS

These modern, streamlined washers have all operating and driving mechanism fully enclosed, yet readily accessible. Only two points on the washer and three on the motor require lubrication. Sizes: 30" x 30", 30" x 48", 36" x 36", 36" x 48", 36" x 54", 36" x 64".

## TROY ATLAS EXTRACTORS ▶

Patented Troy "center-slung" suspension permits larger out-of-balance loads, safer operation and fewer stops for re-distributing the load. Sizes: 40" and 48".



## TROY - MERCURY DRYCLEANING UNITS

— For use with 140° F. petroleum solvent. Unit fully enclosed, eliminating fumes and odors. Occupies less than 5 x 10 ft. of floor space.

**TROY-OLSON SUPER-FLOW FILTERS** — Tubular type, continuous reclamation unit removes solid and suspended impurities from petroleum solvent. 7 sizes, with capacities from 1,000 through 10,000 gallons per hour.

**TROY-OLSON SUPER-FLOW STILLs** — Continuous distillation unit removes soluble oils, fatty acids, soaps and greases from petroleum solvent. 8 sizes, with capacities from 50 through 1,000 gallons per hour.

**TROY-VIC DRYCLEANING UNITS** — For use with perchlorethylene synthetic solvent. Fully automatic and semi-automatic models available.

**TROY-LOYAL TAILOR PRESSES** — Manually operated presses for finishing suits, wool dresses, and other tailor type work. Wide range of sizes.

**TROY - HUEBSCH DRYING TUMBLERS** — Quick and easy to load and unload. Unusually fast, thorough drying and deodorizing. Sizes: 36" x 18", 36" x 24", 36" x 30", 42" x 42".

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## TROY LAUNDRY MACHINERY

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PROGRESSIVE  
MANAGEMENT

WASTED  
LABOR

# Introduction:

**T**HIS issue of STARCHROOM's annual Guide-book of the Laundry Industry is devoted to the subject of increasing production in the face of an increasingly tight labor market. In the pages that follow are actual case histories taken from ten different plants.

Because the industry is essentially a local one, each plant visited by a STARCHROOM editor had a different problem insofar as conditions varied from one community to another. However, each of the plants was achieving the common objective of increasing the effectiveness of the productive labor force, or decreasing the number of workers required for maximum production, by making changes in equipment, plant layout or working procedures.

Increasing the effectiveness of a group of employees is a subject on which volumes have been written by many men who have devoted years to studying it. While all of this material may be useful as background information, the laundryowner who has an urgent problem is more likely to derive immediate benefit from ideas gleaned from the practical experiments of fellow laundrymen.

Rarely, if ever, can such ideas be lifted in their entirety from one plant and superimposed on the organization of another plant. In almost every successfully operated laundry an observer will find that many ideas

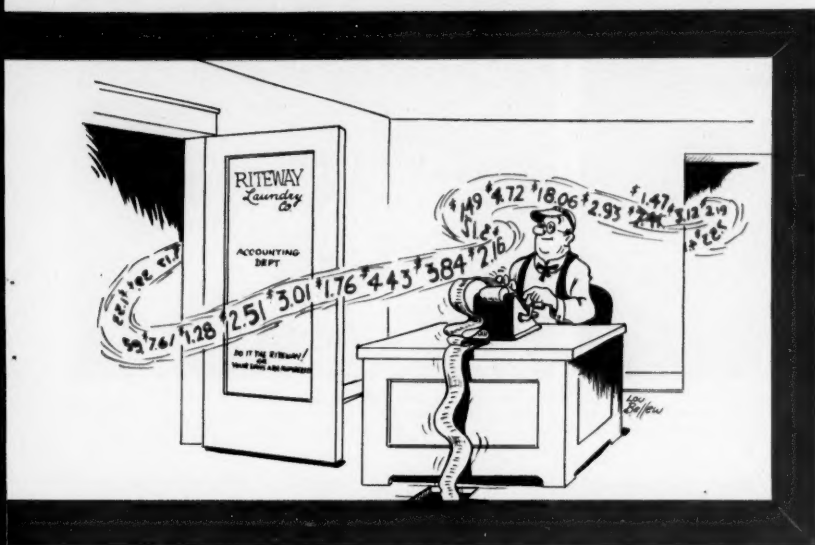
have been borrowed from many sources and adapted to the peculiar conditions prevailing in that particular plant. Frequently such ideas are combined with similar ones already in use. Some are rejected after a period of trial, others need further modification. Only those which help accomplish the desired goal are retained.

An acute shortage of labor is already felt in many localities. It has not yet become a general condition throughout the country and the experts do not seem to be in agreement as to when, or if, it will. However, those who remember the conditions under which the industry operated during the last war are on the alert to adopt every measure which can help them prepare against a similar situation if it should arise.

Freedom from the problems of a possible labor shortage is not the only reason for laundry management to press the search for labor saving techniques. Increased operating costs, other than labor, and increased taxes continue to take more and more out of the profit dollar. Profits are going to be harder to earn in the years ahead. Under such a set of operating conditions, management will need to save every dollar it can. If it can be done through a reduction in productive labor costs, it may be possible to achieve the two-fold objective of increasing profits and avoiding the problems of a short labor market.







sorting. As a result of the production changes initiated by adverse cost figures, 6½ employees have been eliminated from the productive payroll, the remaining are more efficient, and a 10 to 15 percent reduction in shirt costs has been effected.

Continuous cost accounting incorporates two features that Riteway considers "musts" for every laundry: (1) operation results by services, and (2) analysis of costs by work centers. (For detailed explanation, see SLJ, December, 1950, page 23, "Profit Control Through a Permanent Cost System," by Kenneth Weiser.) In analyzing quarterly reports, Riteway saw that although shirt production was high, costs in shirt marking and shirt sorting work centers were out of line. Here was the positive warning, the red light—that called for a search for more efficient methods of marking and sorting shirts.

#### Major Ticket Change

A new bundle ticket, adapted from one used at the New England Laundry in Hartford, Connecticut, was the first major change introduced. The ticket had repercussions in both office and plant, since in replacing the old eight section, all-stenciled ticket, methods were affected.

The ticket now used at Riteway consists of five sections and a shop stub at the top. Section one is the customer receipt, section two the routeman's record, and section three the office record. Section four is the production ticket used in fully identifying shirts, and section five is made up of stubs to be attached to key bars for flatwork, fluff-dry, and hand-finished. Parts of the bundle are packaged separately and finally assembled by the route driver.

When a routeman picks up a bundle, he attaches a gummed label to the ticket. Stenciled in the office, the label bears the name, address, and service in triplicate. After weighing and type-of-bundle classification, the bottom section stubs move directly to the damp assembly sections. If a bundle contains shirts, the upper parts are sent to the markers with the shirts. The marker records the number of shirts on the shirt ticket

and on the customer receipt, then sends the whole ticket to the office.

The accuracy of the number recording is checked in the office, shirt ticket against receipt. The shirt ticket is sent to the sorting department, and the rest of the ticket is kept in the office where the bundle is priced and accounting and statistical information recorded on a special accounting machine. If a bundle contained no shirts, production stubs would have been torn off and the rest of the ticket sent directly to the office.

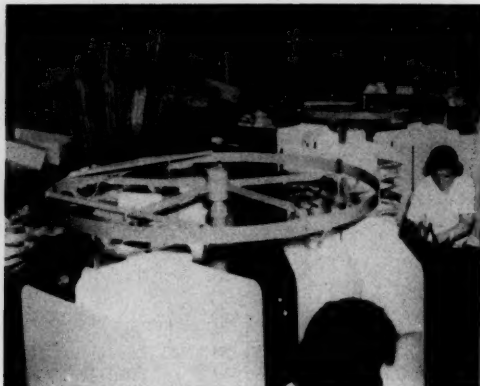
The advantages gained from the ticket switch are



New marking booths plus change in methods helped to reduce shirt marking costs. At right are bins for different colored starch classification nets, at left is net stand and numbering machine (handle visible). Booth has been equipped to cut down motions. Ticket writing stand, pencil and staple holders are at most convenient positions. Shirts are dumped in hopper (background) in zippered bottom bags, making for easy removal.



Conveyorization went along with new marking booths. Fabric belt moves past three girls, taking netted shirts to washroom. One girl who formerly moved nets manually was eliminated by simple conveyor



View from above shirt finishing room shows flow of shirts through units to specially designed sorting bins and on to multiple-purpose sorting table. Two sorters now do work formerly accomplished by four

numerous. In the first place, one employee does the work of two in the stencil room. Since the ticket uses a separate label, and only three printings are needed, one stencil girl can handle ticket preparation and direct mail work with ease. Another girl, as well as two older type accounting machines, were eliminated because pricing and statistical computations were simplified.

Riteway has its routemen on a strict bundle quota system. No more than 20 percent of the weekly bundles are allowed to come into the plant on any one day. The tickets, bearing route and day marks, are numbered consecutively. The office records the numbers of the tickets assigned to each route, and a quick check gives almost absolute control over the quota system. Daily and weekly quotas are based on averages taken of the previous month's sales.

Most valuable to Riteway about the ticket itself has been the ability of the plant to divorce office from production. At no time during the processing of a bundle, no matter what it contains, must the productive operation wait for office handling of tickets. Ticket stubs move with their respective parts of the bundle to damp assembly sections, and shirts are on their way before the office even sees the ticket. Pricing and office work are completely separated from plant production.

The physical facility and method changes made in shirt marking also revolve around Riteway's ticket adaptation. Before the use of the shirt section of the ticket, two girls identified with black ink numbering machines, one girl netted and moved the shirts, another marked in piecework and list price items, and a fifth, handling damp wash, marked in a certain amount of shirts in that service.

Under the present setup, three girls, individually completing a whole operation, mark in all shirts as well as piecework, list and other specials. This cuts out 1½ girls, since the shirt marking has been removed from the damp wash section.

Complete marking booths have been set up for the three markers. After bundles have been classified, shirts are sent to the booths in bags with zippered bottoms. The girl sets the mark on the machine, and before examining shirts, stamps the mark on the back of the shirt ticket. She initials next to the mark, thereby assigning her own responsibility for the accuracy of the mark and count. She then examines the shirts for mark

clarity, nets them by starch classification, and writes the count on shirt ticket and customer receipt.

On the booth's back wall is a rack that hold 15 tickets. The marker does not bother to count the bundles because she knows that when she has filled the rack, a 15-bundle shirt lot has been completed.

By using a wet strength, multiple-stub extra package ticket, shirt markers have absorbed the marking of all specials.

The ticket is provided with three stubs, and in addition to the ticket number, each stub carries the numbers 1, 2, and 3. One stub is attached to each special in the bundle. If there is one piece, the marker will circle the number 1 in the stub. She circles 2 if there are two pieces. The remaining pieces, if any, and the ticket itself are attached to the customer receipt.

It is the responsibility of the routeman to see that the bundle is complete. The stubs on the receipt plus those out on bundles must equal three for the bundle to be entirely finished and packaged. Again, no parts of the bundle are held up in processing, and the routeman performs a final assembly function.

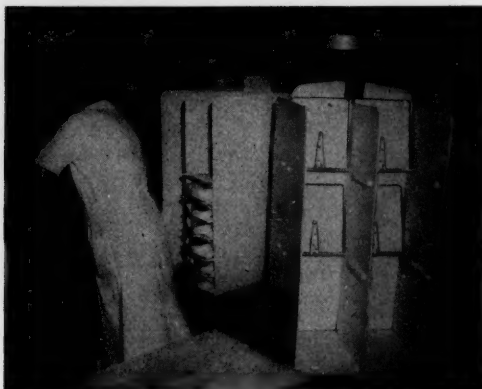
When the marking booths were built and the marking operation centralized in three girls, Riteway saw a chance to conveyorize. Above and to the left of the booths is an endless fabric belt conveyor that takes shirt nets away. This mechanization helped to eliminate the girl who netted and trucked.

#### Shirt Sorting Improved

Shirt sorting was the other high cost item in shirt production expense for Riteway. By designing a new sorting bin, simplifying the sorting process with a sub-sorting, and by building a triple function sorting table, Riteway dropped three employees from this department.

Before the changes, with 150 shirts per hour coming from each of the four shirt finishing units, there had to be a sorter for each unit. They sorted into alphabetized bins, meaning that their keys were the 26 letters of the alphabet.

At present, sorting reels, each equipped with three small, swivel mounted bins, are set up next to each shirt unit. The shirt folder does a sub-assembly into the two-sided bins. She examines the last digit of the mark as she places the collar support in the shirt. Shirts with last digit marks of 1 through 5 are placed



Sorting bins are sectionalized and swivel-mounted on sorting reels. Filling one section, sorter turns bin around and fills other side. When both sides are full, another bin is brought up by revolving reel



in the left side of the bin. Shirts numbered 6 through 0 are put in the right side. Filling both sections completely, the folder turns the bin around to fill the two sections on the other side in the same manner. When both sides are loaded, the girl turns the sorting reel to bring the next sectionalized bin within reach.

The sub-assembly by the folders means that the sorters need only look at five digits. They have been cut from 26 letters (the alphabet), to 10 digits (all possible digits), to five, since they know that all shirts on the left side are low numbers, while those on the right are high. The simplification has removed two sorters, the four shirt units now being attended by only two girls.

Sorters lay out the shirt tickets on a long, narrow table in back of the folders and bins. Above the table are all the boxes needed to package different size shirt bundles. Underneath the table surface is a fabric belt conveyor that takes boxes to the machine string tyer.

Completing a sort, the girl selects the proper size box (all shirts are boxed), packs the shirts with ticket on top, and puts the box on the conveyor. The proximity of sort, pack and removal cuts seconds from the sorting-packaging operation.

The girl on the automatic box wrapper does the checking operation on the number of shirts in the box to see that there are as many as were marked in. The combination box-tie and check point eliminated a girl who spent the entire day checking.

As stated previously, the overall result of these changes has been a 10 to 15 percent reduction in shirt costs. One worker has been eliminated from the stencil room, one machine operator in the office is gone, 1½ from the marking department are missing, and three employees have been eliminated from the sorting department.

Other interesting figures point out the success of Rite-way's efforts. Total productive labor costs were 22.2 percent for the first period of 1951 and have averaged 23.1 percent as of July 1. Shirt sorting production was up 47.5 percent the first quarter of this year compared to the same period in 1950. Labor cost in sorting is down 26.9 percent for the same period comparison. Productivity in shirt packaging has doubled, while costs have been cut in half. It is also interesting to note that the reduced costs are in the face of an eight to 10 percent increase in wages, and might have been lower but for these pay jumps.



Sorting table has three functions. Above is box storage, then sorting surface, while belt conveyor below takes box to machine tyer. Note proximity of sorting bin. Layout, sub-sort, functional sorting table made it possible to cut three employees from this department

The cost reductions, productivity increases, and methods changes are very impressive when viewed alone. Much more impressive, however, is the coordination and flow of reasoning behind the steps taken at Rite-way. The management of this laundry believes that it should constantly strive for a greater profit through improvement and modernization. They believe that when the facts, and figures are facts, indicate a need, something should be done about it.

This then, is not wholly the story of good production in a good laundry. It is more the story of the basic management processes that are behind good production; things that are available to the management of every plant, no matter what its size and volume.

Rite-way's is the story of real figures regarded as facts, how they are integrated into the productive operation of the plant, and how this coordination has resulted in the ability of one laundry to produce more tonnage with less labor. ●



One of the body press units in action. Operator stands in one position, never moves. Girl above is commencing lay of butcher frock on press as it is brought to her on continually revolving turn-table. As she completes the lay, the press will close, press on her left will open, she will remove finished frock from it and commence a new lay. Note proximity of conveyor hooks behind operator

## How Reliable Linen Service Presses 80 Uniforms Per Operator Hour

**Rotary type press units, piecework incentive plan and endless overhead conveyor combine to set records at Detroit plant**

PRESSING 80 UNIFORMS PER OPERATOR PER HOUR is unusual, to say the least. When only five girls are needed to turn out the same weekly production formerly done by 12 girls, and they do it in less than half the floor space, you really have something to talk about. Reliable Linen Service in Detroit is doing it and the management was willing to talk about it when the accompanying photographs were taken.

The five girls pressed a total of 15,923 uniforms in the 40-hour week ending last August 25th. They have actually exceeded 17,000 pieces in a single week. However, normal production is averaging just under 3,200 items in an eight-hour day.

Installation of five rotary type pressing units, a piecework incentive plan, and an endless overhead conveyor have made this possible. Let's consider the details of each in turn.

The new pressing units replaced 24 conventional presses which were arranged in tandem and operated by 12 girls. Top production of the old presses averaged 38 uniforms per operator per hour. Furthermore, they required twice the floor space the new units require.

This space saving feature is dramatically illustrated on a visit to the plant. The rotary type units are in the

same room with a battery of 28 conventional presses. The latter, operated in tandem by 14 girls, occupy approximately 3,750 square feet of floor space. The new units occupy just over 1,400 square feet.

The five rotary units are a sleeve, a yoker, and three body press units. Each unit consists of a number of presses. The sleeve has four double buck sleeve presses, the yoker has five single buck yoke presses, and each body press unit has four single buck body presses.

Each unit is operated by one girl. Thus, five girls make the lays on 21 presses. This is possible because the presses are literally brought to each girl as she stands at her station. She never moves.

The presses in each unit are arranged in the form of a circle and revolve counter-clockwise past the operator like a merry-go-round. As a press reaches the operator's station, it automatically opens, the girl removes the finished garment, sends it on to the next unit, and makes a lay with the next damp garment. The press automatically closes as it leaves the operator and moves on around the circle. The next press is open and ready for the girl to repeat the operation. It's as simple as that.

Damp work is brought from the washroom by basket to the pressing department where it starts the trip

through the units at the sleever. A feeder removes the uniforms from the basket, shakes them out, and hangs them over a stanchion at the left of the sleeve unit operator. This operator makes one simultaneous lay with both sleeves of a garment on each of the bucks of the press as it passes. Thus a garment only goes around the merry-go-round once in this operation. It is then ready for the yoker.

Because the operator at the yoker makes two separate lays with each garment, maximum capacity of the entire production line is controlled by this operation. Each garment goes twice around the merry-go-round here. The body press operators make the customary three lays but, because there are three complete body press units, these operators have no difficulty keeping up with the highest rate of production coming off the yoker.

Each unit is powered by a separate motor with a variable speed drive. This permits adjustment of the speed of each unit separately. In this way synchronization of the units is achieved. This is also an advantage when training new operators. As the operator becomes more proficient, the speed of the unit can be increased.

The sleever normally makes 1.7 revolutions per minute, the yoker 2.65 r.p.m., and each body press unit 2.27 r.p.m. At these speeds, maximum production of the yoker is 398 pieces per hour, while the sleever produces 408 pieces per hour, and each of the body press units turns out 183 pieces per hour.

All operators are paid on an incentive plan by the thousand pieces finished. A formula for determining the basic time per piece was devised letting "a" represent the revolutions per minute of each unit, "b" the number of presses per unit, and "c" the number of lays per garment. Time per piece is represented by "d." Thus, dividing the number one by "a," dividing the quotient by "b," and multiplying that quotient by "c," gives the value of "d."

Applying the above speeds in the formula, we find that the time required to make a lay on the yoker is 0.151 minutes. The sleever requires 0.147 minutes per lay, and each body press unit requires 0.183 minutes.

To the time per piece of the yoker (the controlling unit), the following allowances are added: four percent for rest periods, 10 percent for personal and fatigue, and 20 percent for incentive. The total of these allowances (34 percent), when added to the time per piece of the yoker (0.151 minutes), gives a base time for incentive purposes of 0.202 minutes. This is equal to a pro-



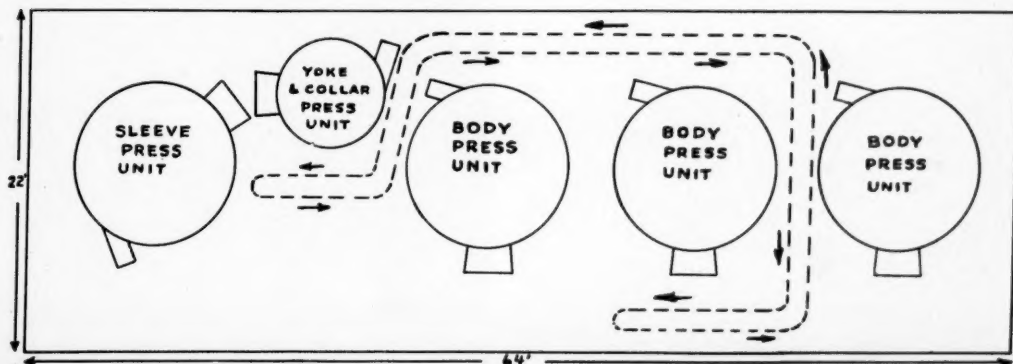
duction rate of 298 pieces per hour, or 1,000 pieces every 3.35 hours. Thus, if we assume that the base rate is \$1.00 per hour, the incentive rate becomes \$3.35 per 1,000 pieces. It should be noted, however, that the base rate used in this example is hypothetical and is not the established rate at Reliable's plant.

Earnings are calculated weekly and down time or delay time, whether avoidable or unavoidable, paid for at the base rate. It is understood that the minimum, or base rate, will be paid in any event.

If, in the week ending July 7th, the girls finished 15,600 pieces in 39 hours, they earned a total of \$266.30, or \$53.26 apiece. Each girl was paid \$52.26 for finishing 15,600 pieces at the incentive rate of \$3.35 per 1,000 pieces. In addition, they were each paid the base rate of \$1.00 for the hour that the machines were down. The plant is on a standard 40-hour week.

In this connection, the incentive for all the girls to pull together as a team is ever present and has really paid off for Reliable. Morale is high and, as the records prove, production levels remain fairly constant. There are a minimum of peaks and valleys in the average week.

The endless overhead conveyor is the feature which assures a constant flow of work from one unit to the next. Designed and built by Reliable's own people, it is a unique combination of a monorail with a chain and sprocket drive. Trolleys running on an overhead track carry large hooks on which the garments are hung. The hooks are at fixed intervals apart and are kept moving constantly along the track, from one operator's station



Above sketch shows the 1,400 square foot floor space occupied by the five rotary type press units. Also shown is the overhead conveyor system which carries the garments from one operator's station to the next





View of endless overhead conveyor as it carries frocks from one press unit to another through complete production line

to the next, by an endless chain which connects them. The chain is of link construction. A variable speed motor transmits power to a single vertical drive shaft on which the sprocket wheel is mounted.

Sprockets on additional wheels engage the links of the chain at points where the monorail track makes turns. These additional wheels are not drive wheels. They merely serve as guides and supports for the chain at the turning points. It is the diameter of these wheels which determines the distance between the chain as it passes a given point going in one direction and as it passes the same point going in the other direction.

The hooks, as they pass each station, are within convenient reach of the operator. As she lifts a finished garment from the press she merely hangs it on a hook and it goes on to the next unit. The operator at the next unit lifts it off the hook with equal ease.

The speed of the chain is adjusted so that it is in synchronization with the overall speed of the entire production line. If, as rarely happens, the garments reach one station at a slightly faster rate than they are required, it is a simple matter for the girl to lift three or four off the hooks and lay them on the stanchion besides her. In the case of the body presses, of course, each girl must only take an average of every third garment off the hooks as they pass her. Also, because these press units are at the end of the production line, the monorail track makes a turn at the last body press unit and starts the return trip. Therefore, the girls at these units can always pick up garments on the outside chain as they make the turn and start back.

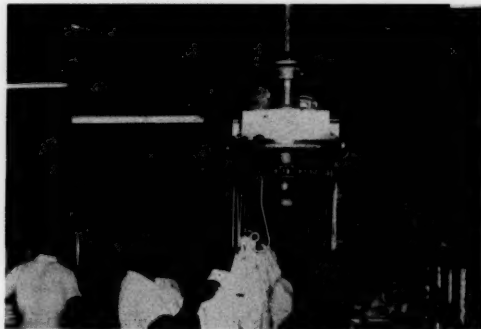
Besides the five operators, the entire production line only requires four other girls. One of these is the feeder who shakes out the damp work as it comes from the washroom. The other three are the folders, one of whom

OPERATOR <i>Lois, Production</i>										PRESS UNIT		WEEK ENDING 8-25-51	
DAY	DATE	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Total	
M.	8/20	300	796	400	668	32	256	555	8			29.87	
T.	8/21	583	1005	633	449	21	438	—	8			30.69	
W.	8/22	394	1232	589	562	60	296	—	8			31.31	
TH.	8/23	520	738	681	603	17	551	—	8			32.05	
F.	8/25	326	1043	630	453	28	752	449	8			36.17	
S.													
WEEKLY TOTALS		1923	9226	4712	3315	162	2288	1004	40			159.25	
AMOUNT PAID													

Record sheet shows production for the five rotary type press units only. Reliable also operates 28 conventional presses. Note that production for the week of August 25th totalled 15,923 uniforms. Seven different types of uniforms were pressed during the week

is stationed at each body press unit to prepare the finished garments for the shipping department. As each body press operator lifts a finished garment off the press she merely lays it on a rack beside her and the folder does her folding on a nearby table.

One is impressed by the smooth flow of production through the department. With a minimum of confusion the girls are turning out a constant rate of production, day in and day out, which is making money for the owners and for them. Of course, there are relatively few plants in the country which have a volume of business that requires such a high rate of production but almost any plant should be able to pick up some valuable production ideas from Reliable Linen Service in Detroit. ●



End view of conveyor shows power set-up. Variable speed motor above monorail track transmits power to the single vertical drive shaft by means of a chain. Another chain below the monorail carries the hooks throughout the department. Links in this chain are engaged by sprockets on wheel at lower extremity of the drive shaft



## Two-Year Labor Reduction

1949	Employees	1951
2	Shirt crew	2
2	Washroom	1
4	Flatwork crew	2
2	Markers	2
2	Checkout girls	0
1	Handkerchief and sock girl	0
2	Wearing apparel (press operators)	1
1	Wearing apparel (hand finisher)	1
2	Curtain girls	1
1	Tumbler operator	1
3	Utility girls	1
	(plus 1 part time in peak seasons)	
1	Damp assembly girl	0
23		12-13

## How 13 Employees Do the Work of 23

Iowa plant cuts working force in half,  
achieves a productive labor cost of  
less than 26 percent on same volume


MARSHALL & SWIFT, INC., IN MASON CITY, IOWA, is processing the same tonnage today they were handling two years ago with nearly half the number of productive employees and a productive payroll of less than 26 percent. In addition, the work is being done in a 40-hour work week as compared with a 45-hour work week in 1949.

With laundry sales of just over \$2,000 per week, the plant is classed as a small one. But in the matter of efficiency of operation it must be classed as one of the best in the industry.

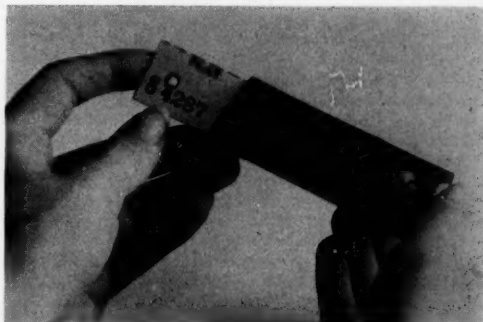
They engaged the services of an outside engineering firm. One of the first things the engineers insisted on was the establishment of a set of complete production records for every department. This should be encouraging to the number of small plant operators who insist that "big" plants are the only ones which can afford to keep complete production records. Marshall & Swift were able to do so and, from these records, were able to learn where their trouble spots were. Once the weak points were discovered, they did something about them.

In order to find out what makes this operation outstanding let's take a tour through the plant.

There are two girls working in the marking department. This is the same number as before. However, the girls now spend about 50 percent of their time marking.

PHONE 789		DAY	
 MASON CITY, IOWA			
N _____			
A ● _____			
P. P.	FLAT	R. D.	SEMI DAMP SHIRTS MARK
C -	3455	T. W.	PRICE
Pants _____		Hanks _____	
Ails _____		Uniforms _____	
SPEC. INST.			
TUMBLE			
● C-3455 ●			
FLAT			
● C 3455 ●			
Sheets _____		P. C. _____	
SOX		HANK	
C 3455		C - 3455	

Pre-numbered ticket consists of sales slip with carbon which makes duplicate on upper portion of five-stub waterproof ticket underneath. Waterproof stubs move with different parts of bundle through plant. Sales slip goes to the office for billing.



The girls place waterproof flatwork stubs in plastic tubes to protect them from mechanical action of the washwheel. A pin is passed through the hole in stub and tube, then secured to net.



whereas they used to spend all of their time marking. Formerly under a complete pin and net system, markers were responsible for making up the invoices as well as complete listing. Now the routeman or call office girl makes out the invoices, and the markers handle only partial listing. All flat and tumble work is identified by means of pre-numbered, wetproof stubs from the main invoice. As press work is fully identified, very little marking is required for regular bundles. Now, with half of their time available for duties other than marking, one marker wraps out handkerchiefs and socks while the other wraps out shirts and wearing apparel.

Route salesmen used to unload soiled bundles into baskets, drag the baskets into the marking room, and throw the bundles up into hoppers. The new system saves the route salesmen a lot of work and prevents them from distracting the markers. Soiled bundles are unloaded into baskets which are rolled up to the markers as they are needed. The markers work directly from the baskets instead of from hoppers. One extra handling is eliminated by the new procedure.

#### Markers' Procedure

Markers work at tables along opposite walls of the room with their backs to each other. In the center of the room a scale for weighing white work is set into the floor. An empty basket is rolled onto the scale. Markers net the white work and feed the nets into the basket until the scale registers 350 pounds.

The girls number the upper corner of each consecutive flatwork stub starting with No. 1 and running through as many bundles as are needed to make up a 350-pound load. The tickets are waterproof and are placed in plastic tubes to protect them from the mechanical action of the washwheel. Ticket stubs are printed as to type of service and are easy to read through the transparent plastic tubes. Ticket stubs and tubes are secured to the net by passing a pin through a hole in both stub and tube as well as the net. Ticket and tube remain pinned to the net through the washing and extracting operations thus eliminating damp assembly altogether. One girl is saved thereby.

Washroom supply costs in this plant are running under three percent. This is less than the national average, according to the American Institute of Laundering's latest operating cost percentages. It is considerably below the 4.08 percent average washroom supply cost for this section of the country as indicated in that report.

Equipment consists of an automatic 350-pound washwheel (doing the work formerly done by two wheels), a 42 by 54 washer, an 85-pound pony wheel, and a 20-pound open-end washer. A 48-inch extractor handles the work from the first two wheels while the latter washers are served by a 30-inch extractor.

Formerly a two-man department, all of this equipment is now operated by one washman. This man is the only employee in the plant who works over 40 hours per week. He is on a 45-hour week. On all the washers except the automatic he uses manually operated time clocks for control of the washing formulas.

In addition to washing and extracting the washman is responsible for preventive maintenance on all the equipment in the plant, for cleaning lint traps, and blowing down lint throughout the plant. In addition, he trucks finished bundles to the shipping room, sorts them into the route salesmen's bins, and keeps all supplies coming up to the girls in the various departments.

Two employees have been eliminated in the flatwork finishing department by conversion of a four-girl, four-roll ironer to a two-girl return ironer. This was accomplished by removing the lower apron and raising the ironer six inches so the work can fall back on the table. At the same time the ironer was converted to sprocket and chain drive. The old gears were removed from both ends of each roll, and a sprocket and chain drive were fitted to one side of the rolls, resulting in a single side drive.

Since damp assembly has been eliminated, work comes directly from the washroom to the flatwork ironer. A movable counter-like rack of 16 bins, fitted with casters, is placed directly behind the flatwork op-





Finished flat is folded and stacked on movable bin at ironer, placed in compartments. Note basket hanging from carry-back monorail at right of ironer (behind scale) used to carry work to tumblers from rack table



Bin table is moved to back of ironer after finished flatwork has been folded and stacked. Here the flatwork is matched with work coming from the tumblers and wrapped

erators. Finished work is folded and stacked on this table and placed in numerical sequence in the numbered bins. The numbers on the bins correspond with those which the markers wrote on the ticket stubs when weighing up the 350-pound load of white work as described above.

The tumblers are along the wall to the right of the ironer. The carry-back monorail formerly used on the ironer before conversion is now used to carry nets of work to the tumblers from the counter-like rack table. The finished work on the rack table is wheeled around to the back of the ironer where it is matched by the tumbler operator with the work coming from the tumblers. This work is wrapped out from the rack. Two of these racks on casters are in constant use, thereby eliminating any delay in either operation. The present tumbler operator formerly spent all of her time wrapping out. Now she does both jobs. Hence, another employee saved in this department.

In the wearing apparel finishing department one girl is now doing more work than two girls were able to do before. This is primarily due to the installation of new equipment. On the old presses it was impossible to achieve even 50 percent of present standards. On the new equipment the single operator is getting from 125 to 140 percent of their present standards with less effort and far better quality.

In 1949 two girls were able to finish from 50 to 52 shirts per hour on their very best days. Today they are finishing an average of 70 shirts per hour. The answer here is the same as with the wearing apparel units. They have modern two-girl shirt units and are using an automatic sleeve as well as an automatic folder. When the girls get ahead of schedule on shirts they move to other jobs around the plant at their regular rate of pay. As noted above, one of the markers does all assembly and wrapping out of wearing apparel and shirts.

Two years ago there were two girls on curtains and hand blocked linens. Today one girl does all checking in, finishing and checking out in this department. No one except this girl and the washman touches this work.

All finishers—on shirts, wearing apparel and flatwork—are on production incentives which were set up by the consulting engineers and based on the production records they established at the outset of their survey. Operators can earn bonus rates by averaging 120 percent of their production standards. Originally, the markers worked on this incentive plan too. However, they were soon taken off incentives and placed on a straight time basis at a higher hourly rate because the variety of their

duties had been increased. As pointed out above, shirt finishers get ahead of production schedules frequently. When this happens they earn their hourly base pay while working at other jobs around the plant.

It is interesting to note the diversity of duties performed by the wearing apparel press operator who performs the greatest number of functions of all productive employees. She does the following:

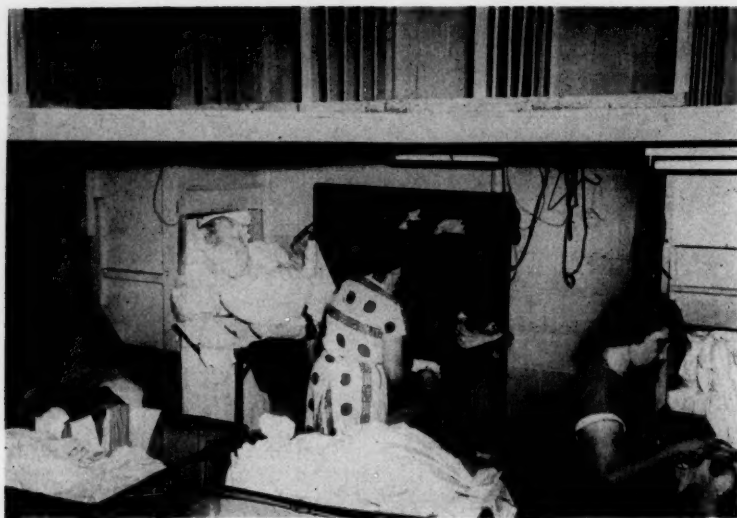
1. Assembles and finishes all wearing apparel.
2. Handles all shirt preparation for shirt unit.
3. Sorts, tumbles and folds tumbled work for all full-finished bundles.
4. Places all uniforms and short coats on hangers and bags them.
5. Starches and presses all hard collars.
6. Transports all uniforms to route salesmen's racks.

The plant handles commercial accounts from local restaurants, small hotels and motels. They have no large commercial accounts. At present this volume runs about one third of their family work. Straight commercial flatwork is ironed at the rate of 80 pounds per operator hour as against a rate of 45 to 55 pounds per operator hour for family flatwork.

The management gives a great share of the credit for these accomplishments to skillful supervision. They believe they have one of the best superintendents in the industry and they gave him full responsibility early in the game. The result has been well selected and trained employees, greater diversification among them, and a happy, progressive atmosphere of employee relations.

#### Plant Ahead of A.I.L. Figures

The latest A.I.L. survey of operating cost percentages indicated a national average productive labor cost (laundry only), expressed as a percentage of sales, of 32.62 percent for those plants doing laundering and dry-cleaning. For plants of Marshall & Swift's weekly sales classification the national average was 33.54 percent. Thus it can be seen that, with a productive labor cost of less than 26 percent, this plant is doing an outstanding job. It has been done by an intelligent appraisal of the productive potential with the help of an outsider's point of view and in the face of paying union wage rates or higher in every case. Success is reflected in their ability to offer finished wearing apparel at an average price of 29 cents a pound compared with an average price of 45 cents a pound in nearby cities. Their shirts are priced at 25 cents compared with 27 cents in those cities. Most important of all, profits have been constant and the business is thriving. ●



Mezzanine (above girls) was constructed in marking room so that work could be bin-fed to markers on proper schedule. Saving one operator, new system permits faster flatwork marker to be switched to other operation

## Small Plant Gets More With Less

**Market analysis, streamlined operations  
cut working crew while volume increases**

IT MIGHT BE DIFFICULT TO BELIEVE that a plant doing just over \$1,000 a week would be able to effect a 55 percent reduction in its productive labor force and actually increase volume. Yet, this is exactly what has happened over a period of five years at Ayers Laundry & Cleaners in Covington, Virginia.

Owner Bill Ayers, on returning from service in 1946, found his plant operating at a loss with 87 percent of the volume by pieces in finished work, including family finish, flat, bachelor and commercial. The remainder was thrifty, wet wash, rough dry and the like.

Ayers polled his customers in an effort to find out exactly what they wanted from post-war laundry service. It was discovered that 99 out of 100 Ayers customers owned washing machines. They sent only those things to the laundry that could not successfully be done at home. Ayers took the ball from here, deciding to sell a product for which there was a market.

Accordingly, he threw out the unprofitable non-finish services, unwanted by the overwhelming majority of his customers. He priced finished work by the piece. This too was a result of his survey, customers having expressed a desire for a simpler, more easily understood pricing structure. Then Ayers went out to make up the lost 13 percent. It was regained, and then some.

### Unfinished Work Eliminated

Elimination of unfinished work did three things immediately for Ayers: (1) it streamlined the plant, allowing a simple straight-line flow to be worked out, (2) it eliminated six employees, and (3) it took the plant out of the red. Ayers Laundry operated at a profit from the minute 13 percent of its volume was dropped.

Progress continued until, at the end of 1949, four more employees had been eliminated, volume was on the up-swing, and Ayers showed a profit in excess of 10 percent.

However, by the end of the fourth four-week period in 1950, the profit figure had dropped to a low 3.6 percent. To combat this trend, due to a wage increase and rising supply costs, Ayers concentrated on in-plant



WEEK OF JULY 7																										
LOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
FINNISH	30	36	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	33
mark	S	S	S	S	M	M	M	M	M	T	T	T	T	W	W	W	W	W	W	Th	Th	Th	Th	F	F	F
shirts	M	M	M	M	M	T	T	T	T	W	W	W	W	Th	Th	Th	Th	Th	Th	F	F	F	F	S	S	S
wearing app.	M	M	M	M	T	T	T	T	T	W	W	W	W	Th	Th	Th	Th	Th	Th	F	F	F	F	S	S	S
assembly	M	M	M	M	T	T	T	T	W	W	W	W	Th	Th	Th	Th	Th	Th	Th	F	F	F	F	S	S	S
FLAT				25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25							
mark				S	M	M	T	T	T	T	W	W	W	W	Th	Th	Th	Th	F							
iron	S	S	M	T	T	T	T	W	W	W	W	Th	Th	Th	F	F	F									
assembly	M	M	M	T	T	T	T	W	W	Th	Th	Th	Th	F	F	F	F									
Warm Springs		M	Th	S																						
Hospital	M	W	Th	F	S																					
Silver Arrow		T		F	S																					
Anderson		Th																								
Babers		Th	S																							

Simple lot schedule chart kept by production manager informs management at end of each day on work progress, pinpoints department bottlenecks. Numbers are bundles in lot, letters are day the lot was processed in department. Proper names at bottom are one-day commercial specials

changes to bring his profit back up to the budgeted 10 percent. It had reached 9.8 at the end of 1951's fifth period.

After an engineering study that proved Ayers machinery to be adequate for processing the volume, methods changes were made. By rescheduling, training and combining, five employees have been eliminated and the flow of work has been balanced.

A mezzanine was built in the marking room, so that all work could be bin-fed to the operators. Bundles are divided into wearing apparel or flat by the customer or the routeman, and are fully identified by two girls at the plant.

Since the ratio of wearing apparel to flat is two to one, and flat is marked faster, work is fed so that the wearing apparel girl works continuously. The flatwork



Crew on flatwork ironer is reduced to two (feeder, folder) for small pieces. Girl in foreground has shaken large pieces, will feed with girl now finishing small pieces. Full identification, proper scheduling through washers allows all large pieces in lot to be run at one time, allows flexible moving of workers





Left: Girl is pre-positioning shirts for finishing units. Same girl has five other functions in plant, is called a "coordinator." Right: Shirt operators were retrained according to manufacturer's recommendations, now do work two units did. Part of success is due to position of shirts in truck with collar forward so that shirt is in position for fast first lay

marker works lot by lot, then shifts to another job. This combination and scheduling saved 31 hours a week.

#### Washroom Rescheduled

By rescheduling the washroom, that is by balancing the loads coming from the marking room to the proper washers, the washing day was reduced from  $10\frac{1}{2}$  to seven hours.

In turn, this provides a better flow of work to flatwork ironer, wearing apparel and shirt units. It is common knowledge that the slowest department sets the pace of production. Ayers has eliminated the backlog of clean and soiled bundles at the washer that so often slows production.

Tumble work, hanks and sorting were made part of the regular operations in the flatwork department, eliminating one girl. This was made possible by using four girls on the ironer for large pieces, then reducing the crew to two for smaller pieces. Pieces are kept separate

by using the proper washwheel, and since full identification is used, all large pieces in a lot may be run at the same time.

One girl was trained to coordinate the work. She has five separate and distinct functions that make up her productive day. She lays out shirts in position for the shirt unit operator. She tumbles trousers and lays them out for the wearing apparel operator. She finishes hanks, shorts and underwear by processing them through the two-roll ironer. She causes the workflow to flat, shirt and wearing apparel, keeping these units supplied with work from washers and tumblers. She is a sheet folder when large pieces go through the ironer and four girls are operating the machine.

The preparing of wearing apparel in a pre-positioned manner, and tumbling certain items, has eliminated one family finish operator. The coordinating girl straightens pockets, unbuttons and lays out the work so that no time is wasted.

Retraining two shirt unit operators in accordance with





6/23/51

	MON.	TUES.	WED.	THUR.	FRI.	SAT.	TOTAL
Flatwork- lbs	192	276	567	398	607	86	2126
Special- lbs	474	647	394	571	409	433	2928
Total- lbs	666	923	961	969	1016	519	5054
Shirts - *	119	432	430	436	482		1899
W.A. (A.I.L. perm)	228	542	765	893	1077		3495
F.F. ( " " )	104	284	174	404	394	184	1544

7/7/51

	MON.	TUES.	WED.	THUR.	FRI.	SAT.	TOTAL
Flatwork-	134	328	Holiday	569	772	441	2244
Special-	489	562	Holiday	462	285	379	2127
Total-	623	890	Holiday	1031	1057	820	4461
Shirts	165	426	Holiday	379	430	426	1826
W.A.	300	612	Holiday	623	685	2907	3927
F.F.	44	299	Holiday	232	337	337	1249

6/30/51

	MON.	TUES.	WED.	THUR.	FRI.	SAT.	TOTAL
Flatwork-	187	284	524	593	504	207	2299
Special-	317	542	525	504	501	693	3082
Total-	504	826	1049	1097	1005	900	5381
Shirts - *	97	401	399	410	339	369	2115
W.A. (A.I.L. perm)	164	710	780	741	745	544	3684
F.F. ( " " )	377	232	405	354	340	1708	1708

7/14/51

	MON.	TUES.	WED.	THUR.	FRI.	SAT.	TOTAL
Flatwork-	214	594	561	535	595		2499
Special-	305	154	235	347	237	407	1675
Total-	519	748	796	882	832	407	4174
Shirts	283	425	425	431	394	238	2201
W.A.	976	748	877	744	600	374	4319
F.F.	175	227	397	511	166	246	1722

Weekly chart gives quick and accurate picture of departmental production. Inset numbers are hours worked, allowing fast figuring of per operator per hour production. Daily, then weekly, then periodic chart keeps management up to the minute on trends, lags, costs

manufacturer's recommendations eliminated one of the two, two-girl shift units. It was as simple as that, with more shirts than ever coming into the plant.

The 31 hours saved in the marking department were used in flat assembly, eliminating one more girl. Wearing apparel assembly was reduced from 48 to 34 hours, and the time saved applied also to flat assembly.

In total, Ayers has eliminated two shirt girls, one family finisher, one flatwork assembler and one marker. The key has been an insistence upon strict scheduling. Mr. Ayers maintains that there is no lost time if a machine is not working when it is supposed to be idle. Balance and flow, and these things alone, permit the flexibility of labor that cut five employees from the payroll.

### Effects of Changes

The laundry crew has been reduced from 27 in 1946 to 17 in 1950 to 12 in 1951. When the unfinished services were eliminated, Ayers lost over \$1,800 yearly

volume, a sizeable piece for such a small operation. Getting this back has meant a net gain of \$200, or a total gain of over \$2,000 yearly while 55 percent of the productive help was being eliminated through modernization of methods.

It will be noted that Ayers went through two separate cost cutting procedures, the first in eliminating unprofitable, unwanted services and the second in a determined effort to reduce production costs.

This should prove only one thing to every laundry-owner. The battle against lower profits is not won in a single engagement. Had Ayers Laundry rested on its laurels, it might still wonder why profits were descending. Management problems are constantly changing, and each new test must be met and overcome. The method must fit the problem, and the story of Ayers Laundry & Cleaners proves that the solutions to management problems are available to the plant lacking large volume and capital. The small plant too, can turn out more tonnage with less labor. ●

### Ayers vs. AIL Cost Figures

	AIL, 1950	Ayers, First 20 weeks 1950	1951
Productive Labor	30.99	24.47	22.81
Supplies	9.48	5.69	5.70
Power	5.20	5.36	6.80
Building	2.09	3.93	2.59
Machinery	4.38	6.85	6.71
Indirect	6.12	5.19	5.79
Total	58.26	51.48	50.42

Chart contrasts Ayers Laundry & Cleaners costs with those given in AIL Special Report 193, Operating Cost Percentages, 1950. AIL figures are taken from national averages in the "more profitable" plant brackets. Ayers' costs are lower in every case except for power, building, and machinery. Difference in totals of more than seven percent is mostly accounted for by productive labor savings



Tumbling of certain items and pre-positioning of wearing apparel eliminated one operator, closed down unit at right in use for five years. Methods changes permitted Ayers Laundry & Cleaners to add to volume, yet produce with fewer employees



View of flatwork girls in action illustrates many of the family finish improvements made at White Star. Ironer is the four-roll machine which was converted to two-girl operation. At upper left is end of the new monorail showing trolleys from which nets are hung from open pins. In pile of flatwork just shaken out by girl at left is flag which identifies flatwork from one family bundle. Girl at right is about to place finished flat from another bundle in assembly bin where flag, barely visible in her left hand, will be hung above compartment matching flag's number.

## Coordination Eliminates Two Operators

**Two-girl flatwork crew, new visual aid  
flag system improve quality, cut costs**

WAYNE ANDERSON AND MARVIN NELSON of the White Star Launderers and Cleaners of Des Moines, Iowa, had a problem that plagues a great many small plants whose volume includes both commercial and family accounts. The problem stemmed from two deficiencies: (1) they were trying to handle both commercial and family flat with one ironer; and (2) because of poor synchronization to the family finishing departments they periodically had to hold up the flat-

work while waiting for tumble work or vice versa.

The ironer problem involved trying to produce two different grades of quality from one machine, which is practically impossible. Also, the volume of family bundles varied so much that it was difficult to maintain a proper size crew for the ironer.

The lack of synchronization has caused two difficulties. When one part of the bundle was being stored while waiting for the other part to be finished, mixups inevit-



ably resulted. In addition, speed of service suffered because of the lag.

Poor balance between the flatwork and tumble departments resulted from the fact that the production of a lone family tumble operator working two machines was matched against that of a six-roll ironer with a crew of six or seven. White Star's volume of family bundles is 400 bundles in peak weeks. If tumbler production were to be increased to match the ironer's, four more tumblers and another operator would have been needed. As the volume obviously did not warrant such an increase, another workflow solution had to be found.

Time and motion studies done by an engineering firm indicated that one tumbler operator working three machines could process 11 bundles per hour. Similar study on different combinations indicated that the flat that went with the 11 bundles of tumble per hour was the equivalent of two girls' work per hour on the ironer. Accordingly, the owners went shopping for a two-girl, return flatwork ironer. After looking the situation over, they decided to buy a reconditioned four-roll ironer and convert it to two-girl operation.

The lower apron of the machine was removed and the machine was set up on six-inch I-beams. The feeders' table was pushed well back so that finished work could drop onto the delivery table for folding. (The up-

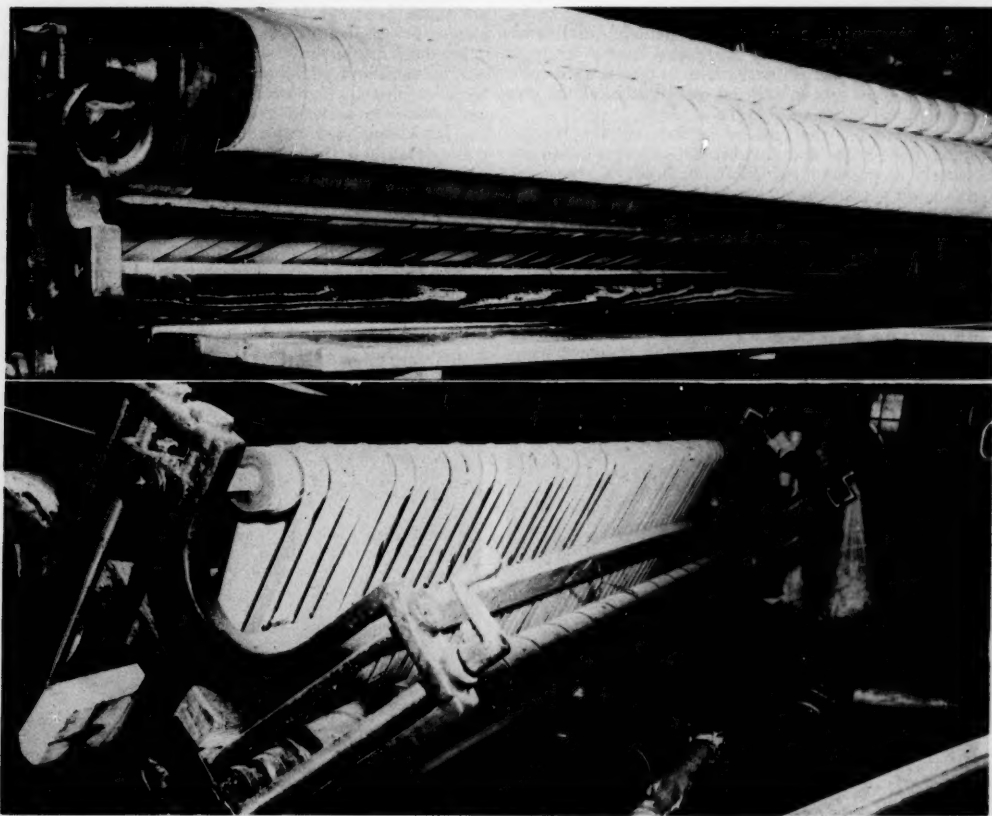
per apron has since been replaced with tapes since the apron had a tendency to crowd to the left due to the influence of the upper guide foll. Nail-studded lengths of 2 x 4 now guide the tapes—one fastened under the front and another behind the ironer on the Y-arm.)

Converting the four-roll ironer to two-girl, return operation has provided another dividend. If plant volume increases, production can easily be increased by converting the machine back to four-girl operation. Flatwork standards for family flat under the present two-girl setup are 38 pounds per operator hour.

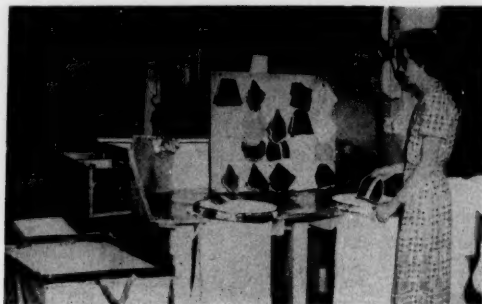
With a separate flatwork ironer added for family bundles, it was possible to cut the crew on the commercial ironer from six to seven girls down to four. The four girls are able to handle what four and one-half girls did under the former setup. The owners attribute this to the fact that the ironer can process more pounds per operator per hour with a smaller crew, and that running only one grade of work through the machine further simplified the job and improved quality.

When the commercial ironer crew was cut, they were able to let one of the girls go and put two other girls with the least seniority on the four-roll, return ironer.

With a separate flatwork setup White Star was able to do something about balancing the workflow to the family flatwork and tumble departments. One suggested



Details of ironer after conversion. Lower apron was removed entirely. Upper apron was replaced with tapes. To keep tapes from crowding to one side, one length of 2 x 4 studded with guide nails was inserted at base of delivery table (top) and another at bottom of Y-arm at back of ironer (above). Six-inch I-beams which raised base of machine six inches from the floor are not visible.



Damp assembler sorts family bundles into three nets—flatwork, tumble, and hanks and socks. Nets are identified by means of colored flags which she takes from board at back of table. Flags come in matching sets of three—one for each net. Shirts and wearing apparel, which are pen and ink marked, go in basket at side of table

remedy had been to bypass damp assembly entirely by using one of the newer methods of identification such as the tube idea or water-proof tickets. These measures conceivably would have worked if the plant's bundles were smaller and not so varied. (Some family bundles were as large as 70 pounds.) It seemed an almost impossible task to pull together the many bundle sections unless the damp bundles were first assembled before routing through the plant. Since the trouble started after damp assembly, they decided to retain the tried-and-true method of pin and net identification from the washroom right through damp assembly.

In order to put the various sections of each bundle through the tumble and flatwork departments as simultaneously as possible, two short monorails of pipe were built leading from damp assembly to the ironer and tumblers. Nets are hung from little trolley bars by means of heavy net pins which will support the nets without being closed. Leaving the pins open saves considerable time as the damp assembler doesn't have to close the pins and the finishers do not have to unpin each net.

In order to keep close tab on each bundle and simplify the job of final assembly, a system of colored flags was devised. The flags, which are shaped something like

pot holders, were made at the plant. The damp assembler works from four flag boards, each board holding 20 sets of flags, with three identical flags in each set. Sets vary in color, shape, and number.

After assembling the damp bundle on the conventional reel, the damp assembler breaks the bundle at her table. She separates flatwork first, netting it and placing one of the three flags from a set in the net. The upper half of the ticket also goes into this net. Then tumble work and hanks and socks are separated. Tumble goes into another net with the second flag. Hanks and socks are netted together with the third flag. All the hank and sock nets are placed in a big net for transportation to that finisher.

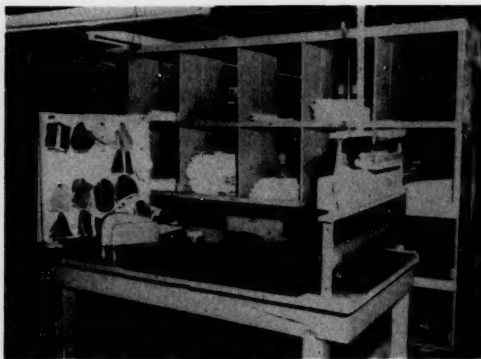
Nets of flat and tumble are hung on their respective trolleys for the short trip to finishing, and proceed as nearly as possible in proper sequence so that each section of the bundle is finished at approximately the same time.

Wearing apparel and shirts, which are pen and ink identified, are trucked, with the bottom half of the tickets, to the finishing units.

Assembly is worked out by a neat bin setup. The bin stands at the head of the aisle between the ironer and tumblers. As flatwork is generally finished first,



Tumbler operator folds tumble at her fold table. Then she matches tumble work with flatwork at bin (out of picture at her left)



Wrapout table where flags are returned to boards after bundles have been wrapped out. Absence of flags hanging from bin indicates that tumble work has not yet been matched with flat. Flatwork flags are hanging on other side of bin, out of sight



Tumble work is dispatched from damp assembly by means of this monorail. Note small trolleys which hold the nets. Heads of large pins have been drilled to hang securely from trolley without being closed



Flatwork trolley is similar to that used for tumble work. Damp assembly station is visible in background. Ironer at right, formerly operated by four girls, has been converted to two-girl, return machine

the operator nearest the bin places the finished flat and ticket stub in one of the compartments and places the identifying flag on a nail above the compartment.

As the tumbler girl finishes her part of the bundle, she matches her flag with the flatwork flag, places the tumble work in the same compartment, and hangs her flag on a nail on the opposite side of the bin. When the hank and sock girl comes up with her finished work and the third flag, she checks to see that all three flags are present and wraps out the bundle. Standing at the wrapping table is an empty board on which she places the sets of flags as the bundles are wrapped. When the board is full, she returns it to the damp assembler who starts the flags on their way again.

Finishing hanks and socks was formerly a full-time job in itself. Thanks to the simplified assembly system, the girl who used to handle wrapping and assembly has enough extra time to take over the family hanks and socks. In addition, she is able to handle all socks and hanks for list tickets, and also checks out commercial pin and net flat and tumble. She hits 130 percent of standard, which makes her quite a hustler.

To summarize the effects of these changes, White Star is turning out the same volume that it did before with two less girls, and this volume is produced with

far greater efficiency than before. Quality on family flat has improved tremendously because of the even pace and longer drying time on the four-roll ironer. Because sections of family bundles are finished at nearly the same time, speed of service has improved and mixups have been almost completely eliminated.

Wayne Anderson adds: "In addition to having two less girls, the hours worked by the two girls on the return feed ironer have been reduced and we use them in other departments of the laundry from time to time without disturbing our flatwork operations." ●



Bin compartments with flags hanging from both sides shows that flat and tumble work have been matched up. Hank and sock finisher will now come up with her finished work and third flag, and will wrap out bundle





Week of July 26 - August 1							Bonus Hours
	Thurs.	Fri.	Mon.	Tues.	Wed.	Total	
Sorting Standard 310 lbs. per hour	Actual hours	8	8	8	8	9	41
	Lbs.	2969	3062	3019	3156	3663	15,869
	Earned hours	9.58	9.88	9.74	10.18	11.81	51.19
	% Efficiency	120	124	122	127	131	125
Flatwork Standard 190 lbs. per hour	Actual hours	8	8	8	8	8	40
	Lbs.	1580	1682	1523	1661	1575	8021
	Earned hours	8.31	8.85	8.02	8.74	8.29	42.21
	% Efficiency	104	111	100	109	104	105
Shirts Standard 65 pieces per hour	Actual hours	5	6.5	4.5	6.25	7.33	29.58
	Pieces	348	454	350	468	543	2163
	Earned hours	5.37	6.98	5.38	7.20	8.35	33.28
	% Efficiency	107	107	120	107	114	113
Washroom Standard 300 lbs. per hour	Actual hours	8	9	8	8	9	42
	Lbs.	3070	3062	3019	3156	4028	16,335
	Earned hours	9.30	9.28	9.15	9.56	12.21	49.50
	% Efficiency	116	103	114	120	136	118

Production record for four departments at Individual Family Laundry shows data for week ending August 1st. Work week commences on Thursday. Bookkeeper enters actual hours, pounds produced, earned hours, and percent efficiency of each department at the end of each day. Bonus hours are the excess of earned hours over actual hours worked and represent the number of hours per week for which employees receive incentive pay.

## How To Use Standard Hour Incentives

### Small family plant increases production 20 percent, succeeds in holding workers

INDIVIDUAL FAMILY LAUNDRY in Haverhill, Massachusetts, has succeeded in maintaining their productive labor force intact in an increasingly tight labor market. This has been accomplished largely because of a "standard hour" wage incentive plan which was installed during the war. At that time a high rate of absenteeism and low employee morale threatened to put them out of business. Today they are reasonably confident that their employees have an incentive to stay with them.

Weekly sales for the first seven months of this year averaged \$2,400 of which approximately 20 percent was drycleaning. This represented an increase over the same period in 1950 of almost 10 percent. With a productive labor force numbering 27 people, the percentage of productive labor costs to sales was 31.16 for this period.

The management credits installation of the wage incentive plan with an overall increase in production of approximately 20 percent in the years since the war.

The standard hour wage incentive plan derives its name from the fact that a standard number of hours, or decimal fractions of an hour, are allowed for the completion of a specific number of units. The number of units adopted at Individual Family Laundry is 100, i.e., 100 shirts or 100 pounds of clothes.

Let's assume that a sorter, working under normal

conditions, and familiar with the operation, should be able to handle 100 pounds of soiled clothes in 20 minutes, or .33 hours. In such a case .33 hours becomes the standard time required for the operation. Decimal parts of an hour are used because they facilitate computation of earnings. These computations are simple once a production standard has been set for an operation.

#### Earned Hours

In our hypothetical case the sorter's base wage rate is 40 cents an hour and she actually produced 3,800 pounds of work in a normal eight-hour day. Then .33 multiplied by 3,800 and divided by 100 would equal 12.54 "earned hours." She only worked eight hours but, inasmuch as her earned hours exceeded the actual hours worked, she is paid for the earned hours at her regular rate of pay. In this case she would earn \$5.02.

Should the earned hours amount to less than the actual hours worked, she is paid her regular hourly rate only for the actual time worked. In this manner she is guaranteed her regular pay but is given the opportunity to increase her hourly earnings for production above standard. She is only given credit for work which passes the usual quality requirements of the plant.

When during the day an employee works on two or more operations on which production standards have



been set, the earned hours are computed for each operation and totalled.

This type of incentive plan offers many advantages to both employer and employees. It has resulted in increased production at a lower cost of labor. It is easily understood by the employees and has their enthusiastic approval. An employee is credited with earned hours for the work he produces instead of being paid a specific amount in dollars and cents, as in piecework. Thus it is seen that standards are not affected by employees' hourly rate of pay. As a result, it is not necessary to revise the standards with changes in employees' rate. At the same time, no restrictions are placed on the daily production of the employees. Employees participate 100 percent in all production above the standard but they are only paid incentive pay for production in excess of the standard. All employees are guaranteed the full hourly rate of pay on each task performed in the event they do not produce above standard.

### Standards Are Fixed

The established standards are fair and equitable to the employees. Furthermore, they are fixed. Except for a tentative period of three months when a new standard is originally tested, they are changed only when new methods or equipment are introduced. This point is clearly understood between Individual Family's management and the employees. If it were not clearly understood the whole standard structure would be threatened because the employees would have no confidence in standards which were subject to change at will.

Complete production records were required for a period of several weeks prior to establishing the standards. In this way the standards were arrived at through actual analysis of past production rather than by time studies. The number of hours required to perform 100 units of each operation in the plant were calculated on the basis of the past records by dividing the average production per operator hour into 100. To these figures three allowance factors were added. One allowance (10 percent) was applied for incentive inducement. Another allowance was a percentage based on the degree of fatigue caused by the specific operation. The third allowance was a percentage allowance for the employee's personal needs. The resulting time for a given operation, with the applicable allowances added, then became the standard time for 100 units in that operation.

The percentage of efficiency of any employee, or group

of employees, may be computed readily under the standard hour plan. This is done by dividing the earned hours by the actual hours worked by the individual or group. For example, if an individual employee is credited with 10 earned hours while actually working eight hours, his efficiency rating is 10 divided by eight, or 125 percent. He worked at 25 percent above the standard for the operation. In the case of groups or departments working on standards, the efficiency rating is found by dividing the sum of all earned hours in the group or department by the sum of the actual hours worked.

Individual Family's efficiency ratings are valuable in that they point out individual employees who may need the attention of management. An employee having a rating continuously below normal may, for example, be unsuited for his particular operation and should be transferred to an operation to which he is better suited. Also, once the system is installed, employees are interested in learning the number of minutes they are allowed for performing a certain number of operations. This is easily found by dividing the production standard for the operation by 60. Increased employee interest in the job and competition with his own or another employee's record frequently results.

### Typical Weekly Production

A typical weekly production sheet for four departments illustrates the simple records required of the bookkeeper under the standard hour plan (see illustration). In studying the production figures it is well to keep in mind the number of workers and the various types of equipment employed in each department. Employees are paid every Wednesday. This accounts for the work week commencing on Thursday.

Two sorters do all the classifying. Pin and net identification is used throughout the plant. Standard production for this department is 310 pounds per hour. In the week under consideration these girls operated at 125 percent efficiency and earned 10.19 bonus hours.

Five girls work in the flatwork department. Four are on the six-roll ironer and the fifth girl shakes out. Standard production for this department is 190 pounds per hour. This particular week the girls operated at 105 percent efficiency and earned 2.21 bonus hours.

The four-girl shirt finishing unit operates on a production standard of 65 shirts per hour. The girls operated at 113 percent efficiency and earned 3.70 bonus hours.

The washroom equipment consists of two 200-pound washers, one 100-pound washer, and one 60-pound washer (all open-end equipment), plus one 28-inch extractor, one 30-inch extractor, and one 48-inch extractor. All of this equipment is handled by one washman and an extractor man. The extractor man also does the damp assembly of all work except wetwash. A third man in the department assembles and bags out wetwash. In this week they operated at 118 percent efficiency and earned 7.5 bonus hours.

Here is a small plant which has adapted a "big business" incentive plan to its own needs with success. Ralph Daniels, Jr., says, "As a result of our experience with this plan, we cannot agree with owners of small plants who say they can't adapt advanced personnel policies to their needs. Our employee morale has never been higher than it is today. Productivity is about 20% higher. The workers are rewarded for this extra production and we, the owners, benefit through the savings realized due to spreading our labor costs over a greater number of units, hence, lowering the cost per item." ●





Overall shot of "package unit" inside the main plant of the Miller Laundry. Garment presses are in left foreground; washers are in left background; ironer and tumblers are in center background; and shirt unit is in center. Assembly section (not shown) is at right of shirt unit



Washman tending row of automatic washers. Canvas pin trays are hung on washer doors. Scale and break table appear in background

## Package Idea Slashes Family Bundle

Separate family finish department cuts  
productive payroll from 31 to 24.8%

**PRODUCTION OF FAMILY FINISH BUNDLES** at the Miller Laundry Co., Des Moines, Iowa, left much to be desired when Owner Gene Hawk started changing things around. The service's most glaring deficiency was out-of-line production cost, 31 to 32 percent, the highest of all Miller's services. Claims were running 18 to 20 per week, and it was difficult to get the service out when the customers wanted it. Family finish bundles were run through the plant along with the list price, household, thrifty dry, and damp wash services, a system which, at Miller, resulted in too much confusion and too much special handling.

By setting up a new and separate department for family finish, which has almost completely divorced its production from the rest of the plant's operation, production costs of the service have been reduced to 24.8 percent—a drop of seven to eight percent—and claims are down to only four to eight a week. Regular service on family bundles is now three days, and two-hour service for over-the-counter bundles can be provided if necessary!

The laundry was fortunate in that a space 40 by 60 feet at the front of the building, which formerly housed wearing apparel presses, could be made available. There was room enough in the rest of the plant to house the main battery of garment units.

Six small 25-pound, open-end washers were purchased and lined up at the front of the area. Two garment press units were set up on one side; a two-girl flatwork ironer, a handkerchief press, and two tumblers were arranged in a row on the other; and a shirt unit was placed in the middle. The washers were installed on a concrete platform about 16 inches above the level of the rest of the floor. Three small extractors were lined up in front of the washers on the lower floor level so that one extractor could serve two washers. The final assembly section of the main plant, on the opposite side of the area from the washers, closed off the new department on the fourth side.

Before, Miller had 11 employees charged to its family finish service. The new department has made it possible to consolidate the marking and assembly operations with those of the washman, service operator, and tumbler operator. Eight employees now turn out about nine bundles per hour, with a bundle average of 17.8 pounds.

Gene Hawk is a strong believer in separating the production of different services as much as possible. The beauty of Miller's separate family finish department, he says, is that there is nothing unwieldy about it—it is easy to control every bundle and each part of every bundle. Like any small, tightly knit organization, Miller's requires a high degree of flexibility of the family finish employees, and considerable overlapping of jobs is required to keep things running smoothly.

The washman, who handles the six washers and three extractors, is also responsible for all weighing, classifica-





Gene Hawk shows how washers are unloaded. Chute carries load down into extractors, which are set on the lower, main floor level



Tumbler operator shakes out net on small table as flatwork girl in background places finished sheet on plywood cover which fits over basket. Tumbler operator handles final assembly for department

## Production Cost

tion, and identification (except shirts). After weighing the complete bundle on a scale located at the head of the line of washers, he weighs the wearing apparel separately. He then classifies for washing, identifying each net with a pin from a numbered canvas pin-tray. Fugitives and some darks are washed in one of the machines set aside for the purpose. Other lights and darks are washed together, as are light-lights and whites. Greasy or heavily soiled work clothes are, of course, washed separately. Whites are washed in 165-degree water. Length of formula is 28 minutes, which includes three suds, bleach, four rinses, a sour, and a blue. Washers are loaded to a maximum of 22 pounds, with 20-pound loads preferred. Gene Hawk is not completely satisfied with his family finish washing and is still experimenting with it.

Loads from the washers are moved to the extractors by means of a monel metal trough resembling a coal chute. Extractors are set for three minutes, and a buzzer sounds as a signal for the washman to shut them off.

The washman marks the bundle's pin number on all four sections of the ticket, inserting the bundle weight on the top and bottom sections where called for.

The next step in processing the bundle is handled by a utility girl known as the service operator. Holding down the key spot in the department, this girl removes nets from the extractors; makes separations for the flatwork ironer, tumblers, wearing apparel presses, and shirt unit; dispatches the work in canvas baskets to these centers; and handles any necessary starching of wearing apparel and shirts. After counting and listing shirts in the bundle on the bottom two stubs of the ticket, she pencil-identifies the garments on the tail (using the pin number), and lays them out in ten-bundle lots for the shirt operators. She also lends a hand with assembly, the apparel units, or the shirt unit if additional help is needed.

The tumbler operator, in addition to keeping her two tumblers busy, irons hanks, folds tumble, and assembles and packages all flatwork, tumble, wearing apparel, and shirts. Her job must mesh closely with that of the service operator.

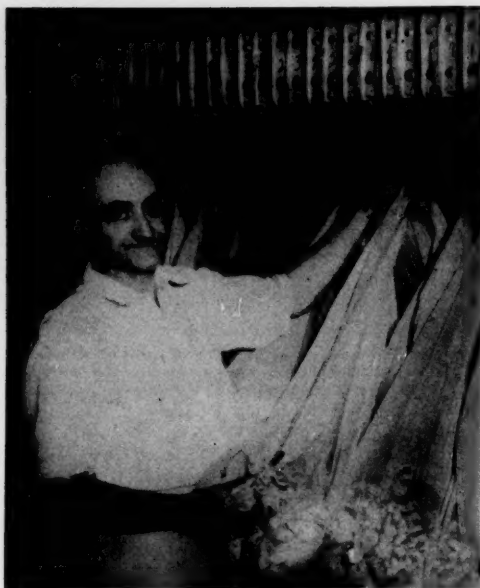
Two flatwork girls operate a 120-inch, two-roll, return ironer. Two wearing apparel girls each operate a wearing apparel unit, and do their own touchup.



One of the family finish operators is charged to the two-girl shirt unit, although only 40 percent of the shirts handled by the unit are from family finish bundles. The remaining 60 percent of the unit's production is from the main plant in the form of French cuff shirts for which the unit is particularly well adapted. The crew turns out 35-40 shirts per operator hour. Shirt sorting is handled by the folder. The unit, by the way, is equipped as a three-girl unit. In case of a heavy run on shirts the service operator steps in as the third girl.

Finished bundles are boxed at Miller. When the tumbler and flatwork operators finish their sections of a bundle, the folded work is placed on plywood covers which fit over the baskets in which the work was trucked to the section. After shirts and wearing apparel have been checked and placed in a box by the tumbler operator (who really gets around), she adds flatwork and tumble work to the same box and sends it off to the plant's main wrapout department on a conveyor which runs along behind the assembly table.

The family finish department does a weekly volume of \$1,270, with a productive payroll of \$315 a week. The eight employees put in a 40-hour week. At present, with the exception of the washroom, the plant is running 15-25 percent below actual capacity. When volume increases enough to make it necessary to add additional finishing equipment, or even use present finishing equipment at capacity, the washing equipment may be changed to the conventional type. A large washer will replace five of the small ones, with one 25-pounder being retained for fugitives, etc. ●



Left: Buckley's monorail features a novel arrangement of suspending nets upside-down from key-bars and carrying them completely through the plant. Each key-bar carries eleven pins and each pin carries a 24 x 36 net. Right: To prevent wear and tear on nets, rubber medicine bottle stoppers are fitted over pins before and after passing pins through bottom folds of nets

## Monorail Increases Marking Production By 50%

**Wisconsin plant cuts labor costs  
5 percent with conveyor system**

NOT SATISFIED WITH A 30 PERCENT PRODUCTIVE LABOR COST, Buckley Cleaners & Launderers, Milwaukee, Wisconsin, have pared off another five percent through a combination of innovations. These include installation of a 200-foot continuous monorail, elimination of damp assembly of flatwork, and a number of less spectacular but effective labor saving devices. Some of the changes were the result of experimenting with the ideas of a Milwaukee engineer. Others were conceived and put into execution by Clive Buckley and his own staff.

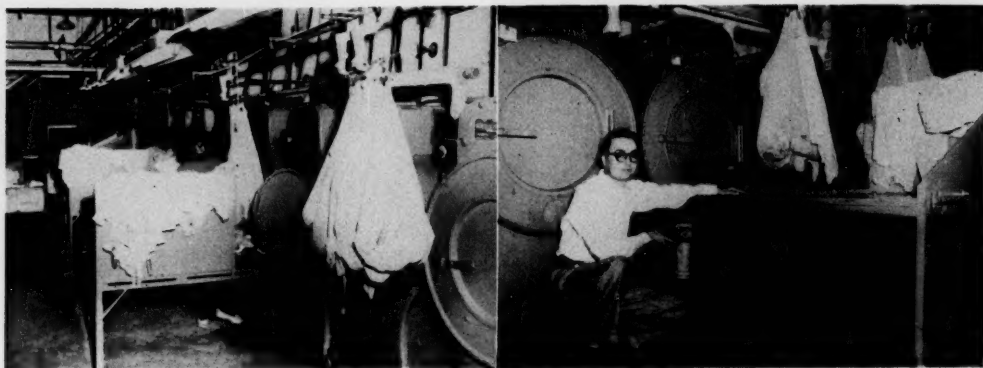
The monorail installation alone has resulted in a 50 percent increase in production in the marking booths. It features a novel arrangement for suspending nets upside-down from key-bars and carrying them completely through the plant—from markers to wrap-out girls. It is used for moving wearing apparel and tumble work.



A conventional key-bar is attached to each trolley on the monorail. Each key-bar carries eleven pins and each pin carries a 24 x 36 nylon net. The nets are suspended from the pins upside-down with the pins fastened through the *bottom* of the nets. In order to prevent wear and tear of the nets a rubber medicine bottle stopper is first fitted over the pin. The pin is then







Left: Tumbler operators' tables are on casters, move back and forth on track in front of tumblers. Tables are constructed so as to allow clearance for open tumbler doors. Note cords which operators pull to release a trolley from stopping point at right. Right: Clive Buckley demonstrates ease with which starch bucket can be pulled out from under tumbler operator's table

can be readily identified in the washroom because they are the only nets *without* numbered pins on the bottom. These nets are merely closed at the neck with a plain pin. At the ironer, flatwork bundles are identified by removing the ticket from the pocket in the net when the nets are shaken out.

Buckley has a particularly efficient ticket which was developed for their peculiar needs. It consists of a white sales slip and two carbon copies (one pink, the other yellow). These are attached in manifold fashion to the six-stub washable section referred to above. Of the six stubs, one is for the customer's mark and the shirt count; the second is for bath towels; a third is for all-finished service; a fourth is for handkerchiefs; and the remaining two stubs are for flatwork.

With the six-stub paperboard portion of the combination ticket underneath the sales slip and copies, the route salesman has a conveniently rigid form on which to write up the ticket when he accepts the bundle from the customer. He writes down the customer's name and address, the type of service desired, and any special instructions. He then writes his route identification in the upper right hand corner. Buckley uses letters of the alphabet to identify routes.

In the plant, the marker enters the pin number, lot number, shirt count and her initials on the sales slip when she receives the bundle at the marking booth. She then tears off the sales slip and both carbon copies after which they are taken to the office for pricing and accounting purposes.

The marker retains the six-stub portion of the ticket. This is the washable part which is separated and sent along with the work through the plant. Each of the six stubs is numbered, of course, and the number on each stub corresponds with the number on the sales slip and carbon copies from which it was separated. It should be noted that the bath towel stub has a list of the plant's four different types of service printed on it. The marker merely circles the type of service indicated on the sales slip. She also puts the customer's mark and shirt count on the shirt stub.

Because damp assembly of flatwork has been eliminated, this work moves by basket direct from extractor to flatwork ironer. Shirts likewise move by basket from extractor to shirt finishing units. The extractor operator does, however, hang nets of wearing apparel and tumble work back on the monorail key-bars at damp assembly. This is the only assembly operation required. As soon

as all eleven pins on a trolley are accounted for, he pushes the trolley along the inclined monorail to a stopping point just ahead of the tumblers.

A sort of whistle-cord arrangement, operated by the tumbler operators from their stations in front of the tumblers, releases the trolleys one at a time from this stopping point as they are needed.

The battery of eight open-end tumblers is operated by two girls. Under the new set-up these girls are producing between 90 and 100 pounds of work per hour apiece.

Each girl operates from a table of her own. The tables are on casters and the two casters on the side nearest the tumblers are in a track which keeps them moving along the line of tumblers at a fixed distance from the doors. Emptying the nets is simple. The girl merely removes the plain pin from the neck of the suspended net, which is just a few inches above the top of the table, and lets the work fall out on the table. As she finishes unloading the nets on each trolley, she lets it slide down the inclined monorail and it is started on the return trip to the marking booths.

#### Table Construction

The tables are constructed in such a way that there is just room for the suspended nets to move freely between the upright back section of each table and the row of tumblers. (The upright section is perpendicular to the tumbler doors.) Also, the top of each table is just the right height to allow clearance for the tumbler doors when they are opened. This construction enables the girl to slide the work in and out of the tumblers from the table with ease.

If the ticket stub calls for starching, the girl starches by hand from a bucket of starch beneath the table. The bucket is secured to a slide-out track which enables her to pull it out from under the table, starch the piece, and slide the bucket back into position under the table. The starched pieces, along with the stub, are placed in a special "house net," a supply of which is kept on the back of each table, and sent to the extractor.

If no starching is called for, the work is tumbled, folded on the table, and placed on a rack for wrapping.

At Buckley, shirts, wearing apparel, tumbled work, and flatwork (with handkerchiefs) are wrapped out separately. After leaving the wrapper they go to the shipping room where it is each individual route salesman's responsibility to match up his own bundles. ●





General view of plant looking from call office. Sorter's bins are behind ironer. Along left wall, going back, are wearing apparel presses, damp assembly, and the washroom



Washroom is set slightly above level of main floor. Sorting and identification are done on table in background. Damp assembly takes place at left of large wheel

## Sickels Gets High Efficiency From 12 Employees

**Small scale laundry turns out speedy service with total payroll of 42.68 percent**

A GOOD EXAMPLE OF A SMALL PLANT which gives fast, low cost service with only 12 employees is the Sickels Laundry Company of Burlington, Iowa, owned by Gene Hawk. Sickels is not a "package" laundry in the usual sense of the word. Washing, to cite one difference, is mostly handled by a conventional, 150-pound wheel instead of the usual battery of "individual" washers. But in speed of service, a principal package plant selling point, Sickels more than holds its own. Finished bundles can easily be turned out in three hours.

The laundry's service, its volume (a respectable \$1,300 to \$1,400 weekly), and its low work force all testify to the good planning that went into the plant's organization. This volume, by the way, is turned out in a 40-hour week.

Productive payroll has been running from 26 to 30.9 percent. Total payroll for an 11-week period ending June 23, 1951, including three vacations, averaged 42.68 percent, and productive payroll for the same period averaged 28.88 percent, six percent lower than the average listed in the AIL's 1950 cost percentages for West-North Central plants doing under \$3,000 weekly.

Sickels is housed in a 60 by 70-foot building, although the productive area is confined in a space 30 by 60 feet. Present equipment could easily be arranged to take up much less space if necessary. Besides the laundry department, the building houses a small synthetic cleaning operation, handled by two employees, with plenty of room left over for the delivery truck to load and unload inside.

Workflow begins with the washman. In addition to operating the 150-pound and a small 25-pound washer, he breaks bundles, pins and nets, weighs, extracts, and writes out the name and weight on each part of the three-part ticket. The number of bundles in a lot is determined by the number needed to fill the 150-pound machine. The break table is equipped with pull-out bins for washer supplies.



Then the damp assembly-tumbler girl takes over. She hangs the bundle, sorts for the various finishers using different colored nets, does starching, and wraps out her tumble work.

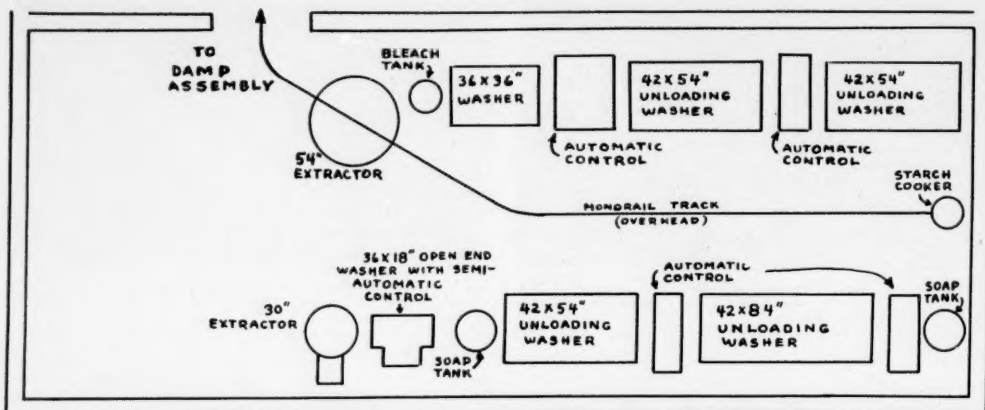
The service operator pen marks shirts and piece-work from the washman's bundles, finishes hanks, and does whatever sewing is required.

The checkout girl makes herself generally useful by wrapping out shirts, wearing apparel, and flatwork, and by helping out in the call office.

Holding down the other posts are two shirt unit operators, one wearing apparel girl, two flatwork ironer operators, an office girl, a routeman, and a manager.

Total cost of equipment and installation was only \$25,000.

Call office business has increased to \$575-650 a week now, from a top of \$195 a year ago. The routeman is still bringing in over half of the plant's volume, but management hopes that enough over-the-counter volume will be built up in the not too distant future to make the routeman's job unnecessary. ●



Floor plan of washroom on Excelsior's second floor. All of this equipment is operated by two men. Old set-up required four to five. Monorail runs full length of washroom to damp assembly in adjoining room

## Plant Cuts Labor Costs Five Percent

New equipment reduces working force by 23 employees

EXCELSIOR LAUNDRY, ATLANTA, GEORGIA, is one of seven plants owned and operated by Gold Shield Launderers & Cleaners in the greater Atlanta area. The plant is being used as a guinea pig for a complete modernization program which will ultimately extend into the other six plants.

Originally occupying three floors of a large brick building, Excelsior's productive equipment has been centralized on two. Flatwork is washed and finished on the ground floor, shirts and wearing apparel on the second.

Pictured here is some of the new equipment which has enabled Excelsior to cut total productive labor costs from 34 to 29 percent, washroom costs alone by 40 percent. ●



Second floor washroom is 22 feet wide, 58 feet long, contains all new equipment except for 30-inch extractor and starch cooker. Full length windows on three sides allow plenty of light and air, make for pleasant working conditions



Six new two-girl shirt finishing units replaced three seven-girl units, increased production and effected a saving of nine operators



New marking booths are equipped for full identification, invisible marking. No girls have been saved here but a marked increase in efficiency over the old hand marking system has resulted in a substantial reduction of customer claims

# PRODUCTION AND MANAGEMENT

## Washroom Information

### Standard Capacities

Maximum Pounds Dry Per Inch and Per Foot of Length

Diameter of Wheel	Per Inch		Per Foot	
	Metal	Wood	Metal	Wood
30"	2.00 lbs.	1.68 lbs.	24.0 lbs.	20.0 lbs.
36"	3.05	2.36	36.6	28.3
42"	4.17	3.40	50.0	40.8
44"	4.58	3.75	55.0	45.0
54"	6.88	4.80	82.7	57.6

Source: AIL

Knowing the maximum pounds of dry weight of soiled linens per foot or per inch of length, it is possible to obtain an approximate washer load limit. For instance, a metal wheel 36 inches in diameter will take 3.05 pounds per inch of length:  $3.05 \times 54 = 146.7$ , maximum load for a 36" x 54" washer.

### Wood Washers

In Dry Pounds of Clothes

Diam. of Wheel	Length of Washer									
	30"	36"	48"	54"	64"	72"	84"	96"	108"	120"
30"	35	40	55	60						
36"		70	90	100	120	135	160	185		
37"		70	90	100	120	135	160	185		
40"			100	125	145	160	185	210		
41"			100	125	145	160	185	210	265	
44"				160	180	200	225	250	275	
48"						250	275	300		350

Source: AIL

### Dry Clothes

1. Occupy approximately 0.243 cubic feet per pound.
2. Weigh approximately 4.11 pounds per cubic foot.
3. Displace approximately 0.0125 cubic feet of water per pound.
4. Weigh approximately 0.033 pounds per square foot (single).
5. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 80 percent full of dry load. (Not packed down hard.)
6. Absorb approximately 0.3 gallons of water per dry pound.

### Wet Clothes

1. Occupy approximately 0.11 cubic feet per pound of dry clothes.
2. Weigh approximately 3.48 pounds per pound of dry clothes.
3. Weigh approximately 31.8 pounds per cubic foot.
4. Occupy approximately 0.0314 cubic feet per pound.
5. Contain approximately 9.12 pounds of dry clothes per cubic foot.
6. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 55 percent full of wet load (with the washer drained).

### Metal Washers

In Dry Pounds of Clothes

Diameter of Wheel	Pounds Per Cubic Foot	Length of Washer												
		36"	38"	42"	44"	48"	54"	64"	72"	84"	96"	108"	120"	126"
36"	4.0	85	89	100	104	113	127	151	170	197	226			
38"	4.0	94	100	110	115	126	141	168	189	221	252			
42"	4.5	130	135	150	158	173	194	231	260	302	346	390	433	453
44"	4.5	142	150	167	174	190	214	254	285	333	381	428	476	500
48"	4.5	170	179	198	210	226	254	301	339	395	452	509	565	595
54"	5.0	238	250	278	291	318	357	424	477	556	636	715	795	833
60"	5.0	294	310	343	360	392	441	523	589	687	785	883	982	1032

Source: AIL

Recommended loads for washwheels can be only approximate. The correct size of the load will vary with type of work being handled, the degrees of soil and individual plant conditions. Capacities given are meant to serve as a guide. The recommended loads are based on a sliding scale of from 4 to 5 pounds per

cubic foot. Maximum capacities given here are based on 5 pounds per cubic foot, although some manufacturers suggest that peak loads may run 5 pounds to 6 pounds per cubic foot, the latter, of course, for the largest size washers.

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## Weight of Linen Supply Items Per 100 Pieces

	Pounds		Pounds		Pounds
Aprons	50	Mats, Bath, 20 1/2 x 29"	75	Spreads, 54 x 90"	260
Aprons, Bib	48	26 x 50"	200	90 x 100"	394
Butcher	50	Mats, Steamship Bath	122	Steamship 1/2	179
Hoover	100-106	Steamship Table	175	Steamship 3/4	212
Wash	32.2	Mattress Covers, Steamship	185	Steamship Full	262
Waist	32.2				
Bungalows	75	Napkins	11.1	Tablecloths	60
Bungalow Aprons	50	Table, 26 x 26"	16.6	S.S. Small	120
Blankets, Steamship	250	Steamship	15	S.S. Large	197
Caps	10	Overall Coats	106	Tidies	38
Cases, Pillow, 38 1/2 x 50"	43	Pants	130	Tops, Table, 45 x 45"	50
Pullman Pillow	23.3			Towels, Barber	11.2
Cloths, Hand	25	Pants	100	Bath, 24 x 44"	75
Table, 70 x 70"	156	Steamship Waiters'	125	Face, 21 x 44"	28
Head Rest	16	Pullman Blankets	325	Glass, 17 x 33"	12.5
Coats, Short	106	Hand Towels	12.5	Glass	16.9
Butcher	225	Pillow Slips	22	Hand	15.9
Steamship Cooks'	125	Sheets	112	Individual	6.05
Steamship Waiters'	125			Kitchen	15
Steamship Butcher	225	Rags	6	Kitchen, 17 x 30"	18.8
Curtains, Steamship Shower	75	Settee Covers, Steamship	125	Pullman	15
Doilies, Table, 11 x 11"	3.1	Sheets, 63 x 90"	133	Roller	42.6
Dresses	50	90 x 108"	228	Side, 17 x 34"	16.7
Dusters, Steamship	25	Pullman	112	Silver, 17 x 30"	25
Fracks	200	Steamship 1/2	122	Small	15
		Steamship 3/4	138	Soda	16.9
		Steamship Full	195	Steamship Barber	15
		Shirts	50	Turkish	47
		Slips, Pillow	30.8	Trousers, White	131
		Steamship Pillow	33	Uniforms	100
				Unionalls	187
				Vests	50

Source: AIL

## Weight of Family Laundry Items Per 100 Pieces

	Pounds		Pounds		Pounds
Aprons, Ladies	50	Napkins, Cotton, 19 x 19"	8.5	Stockings, Silk (100 Pcs.)	7.5
Tea	20	20 x 20"	9.4	Golf (100 Pcs.)	10
Bath Mats	125	22 x 22"	11.4	Table Cloths, Cotton, 54 x 54"	70.6
Blankets, Single Cotton	300	24 x 24"	13.5	63 x 63"	96.5
Double Cotton	600	27 x 27"	17.3	72 x 72"	126
Blankets, Single Wool	400	Night Shirts	40	72 x 90"	158
Double Wool	600	Nighgowns	65	90 x 90"	197
Blouses, Boys'	35	Overalls	200	Table Covers, Cotton, 42 x 42"	55
Cases, Pillow, 42 x 36"	33	Pajama Coats	31	48 x 48"	72
45 x 36"	35	Pajama Pants	31	49 x 49"	75
38 1/2 x 50"	42	Pants, Boys'	50	72 x 72"	162
Collars	5	Robes, Bath	150	Towels, Bath, 18 x 36"	39.5
Curtains	34	Sheets, 50 x 90"	114	18 x 40"	43.5
Cloths, Wash	4	63 x 90"	133	19 x 39"	45
Doilies	6	63 x 99"	146	21 x 42"	53.5
Dresses, Child's	25	72 x 90"	152	22 x 40"	53.5
House	60	72 x 99"	164	23 x 46"	64
Night	34.5	72 x 108"	183	25 x 48"	73
Face Cloths	4	81 x 90"	171	25 x 50"	76
Handkerchiefs, Men's	3.3	81 x 99"	185	29 x 55"	97
Handkerchiefs, Ladies'	1.7	81 x 108"	205	Towels, Face	16
Hose, Men's (100 Pcs.)	10	90 x 99"	209	Kitchen	18
Jumpers	100	90 x 108"	228	Trousers	131
Laundry Bags	75	Shirts, Men's	50	Tray Cloths	25
Mattress Covers	200	Shirts, Men's Dress	75	Undershirts, Men's Light	18.5
Mats, Bath	125	Skirts	75	Men's Heavy	34.5
Napkins, Cotton, 16 x 17"	6.4	Spreads, 72 x 90"	347	Underdrawers, Men's Light	15
18 x 18"	7.6	72 x 104"	400	Men's Heavy	35
		80 x 104"	385	Ladies' Heavy	30
		86 x 104"	478	Unionsuits, Light	30
		90 x 90"	433	Heavy	100
		90 x 96"	462	Undervests, Ladies'	20
		100 x 104"	556		

Source: AIL

## Gallons of Water at Various Depths in Metal Washers Before Loading

Size	Inches Above Bottom of Cylinder											
	1	2	3	4	5	6	7	8	9	10	11	12
30 x 30	6	9	12	16	20	24	28	32	37	42	47	52
36 x 36	6	10	15	20	25	30	36	42	48	55	62	68
36 x 54	10	16	22	29	36	44	52	61	70	80	89	98
36 x 64	12	18	25	32	42	52	62	71	82	92	103	114
42 x 36	7	11	16	21	27	33	40	46	53	60	67	75
42 x 54	10	16	22	30	39	47	56	66	76	86	96	107
42 x 64	12	19	26	36	46	56	66	77	89	100	112	125
42 x 72	14	21	30	41	52	62	74	86	98	111	125	140
42 x 84	15	24	35	46	57	70	85	100	114	130	145	162
42 x 96	17	27	39	51	65	80	97	113	129	147	165	182
44 x 36	8	12	17	23	28	34	42	48	55	62	69	76
44 x 54	11	17	24	32	42	50	60	69	79	89	100	110
44 x 60	14	19	27	35	45	54	65	76	87	98	110	122
44 x 72	16	23	32	42	53	63	76	88	102	116	130	143
44 x 84	18	26	37	49	62	76	89	103	118	134	150	167
44 x 96	20	29	42	55	70	84	100	117	134	152	170	188
44 x 108	22	32	47	62	78	95	112	132	150	170	191	211
44 x 120	24	35	50	68	87	105	125	145	167	187	210	233
54 x 84	18	32	40	52	67	82	98	115	132	148	166	185
54 x 96	20	34	45	60	76	94	112	129	150	170	190	210
54 x 108	22	36	50	67	85	104	124	145	165	186	212	234
54 x 120	24	39	56	75	95	114	136	160	184	206	234	258

## Wood Washers Not Loaded

Size	1	2	3	4	5	6	7	8	9	10	11	12
30 x 30	4	6	8	11	14	17	21	24	28	32		
30 x 36	5	7	9	12	16	20	24	28	33	37		
30 x 48	6	9	12	16	22	27	32	37	43	49		
36 x 36	7	10	14	18	23	28	33	39	44	49	55	60
36 x 48	9	13	18	24	30	36	43	49	56	63	70	77
36 x 54	10	15	20	27	34	41	48	56	64	72	80	88
42 x 54	17	23	30	38	46	54	63	73	83	93	102	112
42 x 60	20	27	34	43	52	62	73	83	96	106	117	128
42 x 70	22	29	38	48	58	70	81	93	105	118	130	142
42 x 84	26	35	45	57	70	82	95	110	123	137	152	166
42 x 94	29	40	52	63	77	92	106	122	139	156	173	190
44 x 54	13	18	24	31	38	45	54	62	71	80	89	97
44 x 72	16	24	32	41	51	61	71	82	92	106	118	131
44 x 84	19	27	37	48	60	71	83	95	109	122	137	153
44 x 96	22	31	42	54	66	80	93	108	123	139	156	173
44 x 108	25	34	46	60	74	88	104	120	137	152	172	192
44 x 120	28	38	52	66	82	98	115	133	152	162	192	212
54 x 126	58	73	92	112	126	156	180	202	228	252	278	304

Source: AIL

## Gallons of Water in Loaded Laundry Washers

(Wheel in motion; clothes saturated)

	Inches, gauge														
Size	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"	
32 x 30	7.5	9.5	11	13	15	17	20	22	24	26	29				
36 x 36	11	14	17	20	23	26	30	33	36	40	44				
36 x 54	16	21	25	30	34	40	45	50	55	60	66				
36 x 64	19	24	30	35	40	46	53	58	64	70	77				
36 x 72	22	28	34	40	46	52	59	66	73	80	88				
36 x 84	25	32	39	46	53	61	70	77	85	93	102				
36 x 96	29	37	45	53	61	69	80	88	96	106	116				
42 x 36	15	20	23	27	31	34	37	39	43	46	50				
42 x 54	25	33	38	40	50	56	60	65	64	77	82				
42 x 64	27	35	41	47	54	60	65	70	76	82	88				
42 x 72	30	39	46	53	61	67	73	78	86	93	100				
42 x 84	35	46	54	62	71	79	85	91	100	108	116				
42 x 96	40	53	62	71	81	91	98	104	115	124	133				
44 x 36	17	22	25	30	34	37	41	43	47	51	55				
44 x 54	25	33	37	45	51	56	62	66	72	77	83				
44 x 72	33	43	51	58	67	73	80	86	94	102	110				
44 x 84	38	50	60	68	78	84	94	102	107	119	129				
44 x 96	45	59	67	80	91	99	110	115	125	136	146				
44 x 108	50	64	77	87	100	108	120	132	139	153	166				
44 x 120	57	73	85	97	111	120	134	145	154	170	184	196			
48 x 84	54	66	80	94	106	123	137	152	162	180	192	208	224		
48 x 126	80	100	120	140	160	183	203	224	247	268	290	313	337		
54 x 84	60	72	85	100	115	130	145	160	175	189	204	220	235	250	
54 x 126	90	108	127	149	170	192	213	236	258	280	305	329	351	374	
60 x 126	85	115	132	156	180	203	227	249	272	297	320	344	368	390	

Source: AIL

(Continued on page 68)



(Continued from page 67)

Table at bottom of page 67 indicates gallons of water added after saturation of load to obtain various gauge readings. The table may be used to find the volume of water required for any washing cycle. Dry clothes absorb between one-third and one-fourth of a gallon of water per pound. A 36 x 54 metal washer, 165 pound load, using a formula of 4 suds at 3 inches and 5 rinses

at 9 inches will require a total of 384 gallons of water or roughly 2.3 gallons per pound—

Absorption .3 gal. per lb.  $.3 \times 165 = 50$  gals.

Suds  $4 \times 21$ , gals. at 3 inches = 84 gals.

Rinses  $5 \times 50$ , gals. at 9 inches = 250 gals.

Total water required = 384 gals.

$384 \div 165 = 2.32$  gals. per pound

### Pipe Sizes Required

Washer Diameter	Size of Water Pipe
24" to 28"	1 inch
30" to 40"	1½ inches
36" (wood)	2 inches
36" x 36" to 72" (metal)	2 to 2½ inches
40" to 44" (wood)	2 inches
42" x 36" to 72" (metal)	2 to 2½ inches
42" x 84" or longer (metal)	2½ inches
48" x 60" (metal)	3 inches

Source: AIL

Water connections should be capable of filling and emptying the wheel at maximum water heights in less than one minute. A 42" x 84" metal washer should fill to 10 inches—130 gallons—in about one minute.

### Washer Revolutions Per Minute

Dependent On Rib Height

Diameter of Wheel	Height of Ribs							
	2"	3"	4"	5"	6"	7"	8"	9"
24"	37	34	--	--	--	--	--	--
28"	37	33	30	27	--	--	--	--
32"	37	33	30	27	24	--	--	--
36"	37	33	30	27	24	22	--	--
42"	36	32	29	26	24	22	20	18

Source: AIL

Washer speeds should be from 220 to 330 feet per minute dependent on the height of ribs. With an increase in rib height, fewer revolutions per minute are required to carry load to point of drop.

## Starching Data

### Proportions

To Prepare	6 Ounces To A Gallon	7 Ounces To A Gallon	8 Ounces To A Gallon	9 Ounces To A Gallon	10 Ounces To A Gallon	11 Ounces To A Gallon	12 Ounces To A Gallon	13 Ounces To A Gallon
5 gals.	1 lb. 14 oz.	2 lb. 3 oz.	2 lb. 8 oz.	2 lb. 13 oz.	3 lb. 2 oz.	3 lb. 7 oz.	3 lb. 12 oz.	4 lb. 1 oz.
10 gals.	3 lb. 12 oz.	4 lb. 6 oz.	5 lb. 0 oz.	5 lb. 10 oz.	6 lb. 4 oz.	6 lb. 14 oz.	7 lb. 8 oz.	8 lb. 2 oz.
15 gals.	5 lb. 10 oz.	6 lb. 9 oz.	7 lb. 8 oz.	8 lb. 7 oz.	9 lb. 6 oz.	10 lb. 5 oz.	11 lb. 4 oz.	12 lb. 3 oz.
20 gals.	7 lb. 8 oz.	8 lb. 12 oz.	10 lb. 0 oz.	11 lb. 4 oz.	12 lb. 8 oz.	13 lb. 12 oz.	15 lb. 0 oz.	16 lb. 4 oz.
25 gals.	9 lb. 6 oz.	10 lb. 15 oz.	12 lb. 8 oz.	14 lb. 1 oz.	15 lb. 10 oz.	17 lb. 3 oz.	18 lb. 12 oz.	20 lb. 5 oz.
30 gals.	11 lb. 4 oz.	13 lb. 2 oz.	15 lb. 0 oz.	16 lb. 14 oz.	18 lb. 12 oz.	20 lb. 10 oz.	22 lb. 8 oz.	24 lb. 6 oz.
35 gals.	13 lb. 2 oz.	15 lb. 5 oz.	17 lb. 8 oz.	19 lb. 11 oz.	21 lb. 14 oz.	24 lb. 1 oz.	26 lb. 4 oz.	28 lb. 7 oz.
40 gals.	15 lb. 0 oz.	17 lb. 8 oz.	20 lb. 0 oz.	22 lb. 8 oz.	25 lb. 0 oz.	27 lb. 8 oz.	30 lb. 0 oz.	32 lb. 8 oz.
45 gals.	16 lb. 14 oz.	19 lb. 11 oz.	22 lb. 8 oz.	25 lb. 5 oz.	28 lb. 2 oz.	30 lb. 15 oz.	33 lb. 12 oz.	36 lb. 9 oz.
50 gals.	18 lb. 12 oz.	21 lb. 14 oz.	25 lb. 0 oz.	28 lb. 2 oz.	31 lb. 4 oz.	34 lb. 6 oz.	37 lb. 8 oz.	40 lb. 10 oz.

### Methods of Sizing Shirts in the Wheel

There are three methods by which shirts may be completely sized in the wheel:

1. Size in the wheel in which shirts have been washed, during the last rinse or blueing process. The water level is dropped to three inches in the inside cylinder and the required amount of starch added to the wheel while in motion.
2. Size in the wheel in which shirts have been washed but after washing process has been completed, water is drained from wheel, the wheel is stopped and opened and the required amount of starch is poured directly over the shirts.
3. After washing process has been completed shirts are pulled, extracted and transferred to separate wheel. Procedure from here on is same as in No. 1 method described above.

Method No. 1 is standard practice in the great

majority of laundries sizing shirts completely in the wheel. It is recommended because of the time and labor it saves, and the higher degree of uniformity of work it assures.

### Procedure for Sizing Shirts Complete in the Wheel

1. Have three inches of water in inside cylinder of wash wheel.
2. Use one gallon full strength starch to each 25 to 35 shirts—on an average three gallons (one 12 qt. pail) to each one hundred shirts.
3. Add required amount of starch to the wheel during last rinse or blueing process, while wheel is in motion and turning toward you. Run load for a full ten minutes.
4. Increase or decrease the amount of starch used, if necessary, to meet local conditions or special requirements as to weight and body of shirt work.
5. When shirts are washed in nets figure each net as two



shirts and make proper allowance for amount of starch to be used.

- After starching, extract shirts until just a trace of water comes from the extractor. Time required will depend on speed of extractor and weight of load. Iron directly on press machine.
- Colored shirts require 10% to 15% less starch than white shirts, so if washed separately, use proportionately less starch than recommended above. It is recommended therefore that white and colored shirts be sized separately whenever possible.

### Amount of Starch

Following is a table showing amount of starch to use in preparing given quantities of cooked starch on the basis of either eight ounce or five ounce per finished gallon:

To Make	At 8 Oz. Per Gal.	At 5 Oz. Per Gal.
10 gal.—use	5 lbs.	3 lbs. 2 oz.
15 gal.—use	7½ lbs.	4 lbs. 11 oz.
20 gal.—use	10 lbs.	6 lbs. 4 oz.
25 gal.—use	12½ lbs.	7 lbs. 13 oz.
40 gal.—use	20 lbs.	12 lbs. 8 oz.
50 gal.—use	25 lbs.	15 lbs. 10 oz.

When preparing starch, always:

- Weigh starch and measure water accurately. Do not guess.
- Boil starch fairly hard for twenty minutes, counting time from moment boiling actually starts.
- Check valves on starch cooker to make sure they do not leak and thus cause the starch solution to thin out.

- Keep starch cooker and all containers clean to prevent souring.
- Do not "build up" starch; make fresh starch and add old starch to it.

### Sizes of Starch Granules

In Microns

	Raw Starch		Swollen Starch	
	Length	Width	Length	Width
Potato	50.3	33.0	324.8	200.3
Canna	63.5	43.5	279.9	221.5
Corn	13.8	12.1	59.9	49.7
Wheat	13.5	11.2	70.0	56.9
Rice	5.7	4.8	10.5	8.8
Dasheen	4.1	3.3	9.3	7.5

Source: U. S. Dept. of Agriculture

In either raw or swollen state, rice and dasheen produce smaller starch granules than do potatoes, corn or wheat. Larger sized granules tend to promote a surface coating on fabrics. Rice and dasheen starch show greater penetration and heavier stiffness than starches from other sources.

### Preparation of Starch

The use of all-cooked starch for sizing shirts in the wheel is recommended because cooked starch gives work a better feel and finish, more uniform results and less is required than if starch is used raw.

Prepare the thin boiling, non-congealing starch on the basis of 8 oz. per finished gallon—the semi-thick boiling starch on basis of 5 oz. per finished gallon.

## Bluing, Bleaching, and Souring Data

### Bluing

Most blues are supplied in two or three different shades—usually a red-blue shade and a green-blue shade and frequently also an in-between shade known as a blue shade—sometimes referred to as a blue-blue shade. These various shades are all blue, of course, but the proportions of colors in them are altered slightly.

In areas of low bicarbonate alkalinity in the water, most plants prefer to sour at a low water level and raise the level for the blue bath. When sour is applied before blue, shade selection is mostly a cut-and-try procedure.

All three shades can be applied in an acid bath, although there is often a greater tendency toward grabbing with a green-blue shade than with either of the other two. This doesn't present much of a problem because there is seldom occasion to use a green-blue shade in a "sour-first" formula. The red-blue shade is most often preferred for application after sour with the blue shade running a fairly close second.

When bicarbonate alkalinity in the water is high, it usually pays to reverse the conventional procedure and blue before souring, because it is possible to use substantially less sour to neutralize the alkalinity in four or five inches of water if the sour bath is the last operation than would be required to neutralize the alkalinity in 10 to 12 inches of water, which would have to be done if the blue were the last operation. If the bicarbonate alkalinity is very high (more than 250 ppm of  $\text{NaHCO}_3$ ) a green-blue shade is likely to be most satisfactory. When the bicarbonate alkalinity is moderate or low

(less than 250 ppm  $\text{NaHCO}_3$ ), the choice is usually between a green-blue shade and a blue shade. A red-blue shade is seldom adaptable to a "blue-first" formula.

Quite a number of laundrymen prefer to blue before souring—even though the water in their plants is low in bicarbonate alkalinity. The idea is not primarily to save sour, but to eliminate spotty, streaky, uneven bluing. There is no guarantee that bluing before souring will eliminate bluing difficulties, but there is some basis for hoping that it will in a great many cases.

One factor in bluing practice that unquestionably accounts for a great deal of blue-grabbing and similar difficulties, is the tendency of some washmen to be in a little too great a hurry to get the blue into the wheel in conventional "sour-first" formulas.

When a load is soured at a water level of four or five inches with the intention of raising that level to 10 or 12 inches for blue, naturally the amount of sour added at the low water level is going to have to be enough to keep the load sour at the higher water level. So while the water level is still low, the load is over-soured.

If blue is applied to such an over-soured load before the high water level is reached, there is always a very strong tendency for the heavily soured fabrics to grab the blue. Unfortunately, just putting on one or two cold rinses cannot be depended upon to rinse out grabbed blue. Very often the dyeing job thus accomplished requires vigorous washing and, sometimes, heavy bleaching.

One sensible preventive measure is simply to switch the sour and blue operations so that blue cannot be applied on an over-soured load. When blue is applied to

a load ahead of sour, it doesn't fully discharge upon the goods until sour is added. Without risking an uneven "take," this procedure permits a uniform distribution of blue throughout the washwheel solution and throughout the load—before the blue is fully developed. Thus, when the sour is finally applied, the blue on the load can develop evenly. As a rule, either a blue shade or a green-blue shade is more likely to be successful in such formulas than a red-blue shade.

To assure uniform bluing, it is essential that the strength of the stock solution of blue be standardized. Concentrations of two ounces of concentrated blue in two, five, or ten gallons of water are satisfactory—so long as the same concentration is always used.

Generally it seems to be preferable not to add any greater volume of 56 percent acetic acid than of the concentrated blue. If the stock solution is made up by using two ounces of concentrated blue in a five gallon crock, two ounces of 56 percent acetic acid ought to be plenty. Over-acidified blue stock solutions have been known to promote a great deal of troublesome blue-grabbing and blue-dyeing. Moreover, although most blues are free from pronounced sedimentation tendencies, any blue is more likely to settle out of solution in the crock if it is highly acidified.

Acetic acid will provide somewhat "longer mileage" on blue, but it is misleading to assume that a quart of blue can be made to last twice as long by adding two quarts of acetic acid along with it. All that that sort of thing can accomplish is to promote a muddy blue or blue-gray cast in the work.

Stock solution should always be carefully measured out in non-metallic cups or other small measuring containers (glass, plastic, or earthenware), diluted in a pail of cold water, and applied evenly across the wheel—preferably with the wheel turning toward the operator—after the water in the wheel has reached the customary level for bluing.

Source: Cowles Chemical Co.

### Properties of Sours

Name	Commercial Form	Reducing Power	Volatile at Ironing Temperature	Amount Necessary to Replace 1 Oz. of Oxalic Acid
Acetic acid	56% solution	Very mild	Yes	(Avoid du pois) 1.70 oz.
Acetic acid	80% solution	Very mild	Yes	1.19 oz.
Ammonium acid fluoride	White powder	Small	Yes	0.90 oz.
Ammonium silico-fluoride	White powder	None	No	0.71 oz.
Formic acid	90% solution	Strong	Yes	0.81 oz.
Hydrofluoric acid	30% solution	None	Yes	1.06 oz.
Hydrofluoric acid	48% solution	None	Yes	0.67 oz.
Oxalic acid	Crystals	Strong	No	1.00 oz.
Sodium acid fluoride	White powder	Small	No	0.98 oz.
Sodium silico-fluoride	White powder	None	No	0.75 oz.

Source: Philadelphia Quartz Co.

### Note on Bleaching

The predominating influence on bleaching of white goods is the amount of available chlorine added to the washer. The temperature of the load and the pH of

the clothes contribute to accomplishing proper results. Temperatures of 140° to 160° F. with pH above 10.2 but under 11.1 are ideal conditions. Within the range of temperature and pH commonly employed in the wash-room, variations in temperature have a greater influence on bleaching activity than do variations in pH.

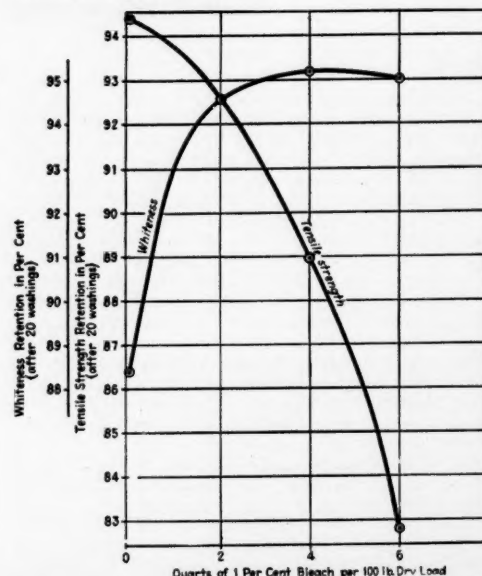
### Bleach and Stripper Chart

Name	Fabric	Formula	Bleach Time
Perborate	Safe bleach for any fabric	Make fresh bleach every day 2 oz. sodium perborate 1 gal. water 1 oz. neutral soap per gal. of water	2 hrs. to 24 hrs.
Chlorine	Safe only on cotton, linen, rayon, and acetate (Cellanese)	1 oz. sodium hypochlorite (Javelle water) 2 gal. water After bleaching dip in solution of 1 oz. sodium bisulphite, 1 gal. water	½ min. to 3 min.
Permanganate*	Safe (but not advisable) on all fabrics	2½ oz. of crystals to 1 quart of water. Strain this through cheesecloth into 5 gals. clear water and add 3 oz. magnesium sulphate (Epsom Salts)	1 to 2 min.
Hydro-sulphite	Safe on any fabric	1 oz. sodium hydrosulphite 2 gal. water Add a few drops of ammonia	½ min. to 3 min.

\* Permanganate is a quick bleach and its effect is proportionately great on the basic strength of the fabric. Technicians say that one permanganate bleach "ages" the cloth five years. It should never be used if time permits the use of sodium perborate (on silk and wool) or chlorine (on rayon or vegetable fibers).

Source: See-O-Matic Corporation & Spotting Manual

### Bleach Strength Chart



Source: AIL

Good laundry practice specifies two quarts of one percent bleach solution for each 100 pounds of dry load. The accompanying chart shows that increases above two quarts cause heavy losses in tensile strength with little appreciable gain in whiteness retention

## Extractor and Tumbler Data

### Tumblers

#### Loads, Steam and Electrical Consumption

Type	Size	Per Load			Per Hour (Two Loads)		
		Dry Load Pounds	K.W. Hours	Pounds Steam	Dry Load, Pounds	K.W. Hours	Pounds Steam
Open End	26 x 18	20	.11	22	40	.23	44
Open End	36 x 24	26	.15	29	52	.30	58
Utility	36 x 30	32	.35	30	64	.70	60
Utility	36 x 38	52	.56	48	104	1.12	96
Utility	36 x 36	40	1.15	80	80	2.30	160
Utility	36 x 48	55	1.70	110	100	3.40	220
Utility	42 x 42	70	.93	82	140	1.86	164
Utility	42 x 60	100	1.35	117	200	2.70	234
Utility	42 x 90	150	2.00	175	300	4.00	350
Utility	42 x 120	200	2.70	233	400	5.40	466

Source: AIL

Capacities, power consumption and steam requirements for tumblers of various sizes are important in planning future expansions or computing costs. A 42 x 90 tumbler requires 175 pounds of steam per load and at two cents a K.W. hour will produce 150 pounds of clothes at a power cost of four cents.

### Extraction Data

#### 80% of Water Removed in Extraction

Type	Basket Volumes		Weight of Loads, Pounds		
	Diam- eter	Cubic Feet	Dry Weight Load	Weight Before Extraction	Weight After Extraction
Solid curb	20"	1.73	25	87.5	37.5
	24"	2.91	40	140	60
	26"	3.31	50	175	75
	28"	4.29	60	210	90
	30"	5.60	70	245	105
Open top	40"	12.3	145	507.5	217.5
	48"	19.1	230	805	345
	60"	32.4	380	1330	570
	72"	46.8	550	1925	825

Source: AIL

An efficient extractor should remove roughly 70 percent of the water in the load. Under-extraction produces wet material, resulting in delays and added costs in the finishing department. When the amount of moisture retained in the load reaches 50 percent of the load's dry weight, it is no longer economically feasible to continue extraction—that is, a dry load of 70 pounds should weigh approximately 105 pounds on leaving the extractor; 70 pounds dry weight plus 35 pounds retained moisture = 105 pounds. The above table assumes 2.5 pounds of water absorbed by each dry pound of clothes—an average figure. Extraction is continued until moisture retained is equal to 50 percent of dry weight; in this case 80 percent of the water is removed. Weighing a load of known dry weight before and after extraction, a laundry operator can readily check the efficiency of his extractors.

### Releasing Suction

Safe pulling of clothes from centrifugal extractors can be accomplished with ease if a strip of cover duck three or four inches wide is placed across the entire bottom and up the sides of the basket before the load is put in. Give one end of this strip a pull and the suction created by the centrifugal action will be released with no strain on the garments or nets. This suction is always heavy and garments should always be released from it, then lifted out. To "pull a load" shouldn't be taken literally.

### Extractor Speeds and Centrifugal Force

Type	Size Basket Diameter	Basket Speed		Centrifugal Force Lbs. Exerted on Each Lb. of Water	
		Regular R.P.M.	High R.P.M.	Regular	High
Open top	40"	850	....	410#	....
	48"	750	....	384	....
	60"	550	....	258	....
	72"	450	....	207	....
Solid curb	20"	1500	2000	640	1132#
	24"	1300	1700	580	980
	26"	1200	1600	532	966
	28"	1100	1500	480	896
	30"	1000	1320	426	742

Source: AIL

Extractor revolutions per minute and pounds of centrifugal force decrease with increasing capacities. Heavier loads require longer extraction periods, although periods required will vary with atmospheric conditions and class of work handled. Wet wash should run about 10 to 12 minutes in a 30" extractor and 15 minutes in a 48" extractor.

### Kilowatt Hours

#### To Run Extractors a Given Time in Minutes

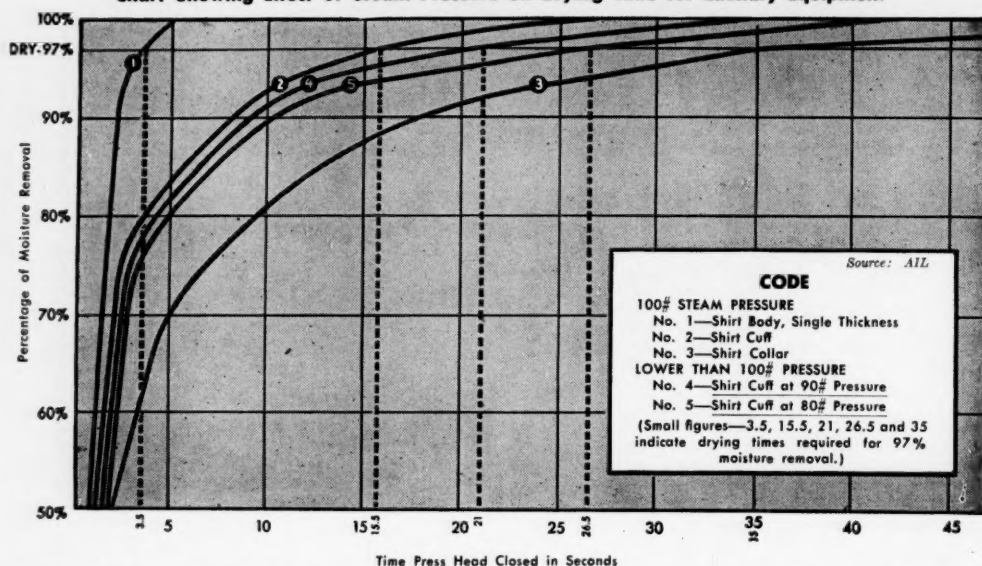
Time In Minutes	Extractor Diameters						
	20"	24"	26"	28"	30"	40"	48"
1	.042	.050	.071	.083	.095	....	....
2	.048	.069	.082	.095	.108	....	....
3	.055	.079	.092	.107	.122	....	....
4	.062	.088	.103	.119	.135	.46	.65
5	.069	.097	.114	.131	.149	.50	.70
6	.075	.106	.125	.143	.162	.54	.75
7	.082	.116	.135	.155	.175	.58	.80
8	.089	.125	.146	.167	.189	.62	.85
9	.095	.134	.157	.179	.202	.66	.90
10	.102	.144	.167	.192	.216	.70	.95
11	.109	.153	.178	.204	.229	.74	1.00
12	.115	.162	.189	.216	.242	.78	1.05
13	.122	.171	.199	.228	.256	.82	1.10
14	.129	.181	.210	.240	.269	.86	1.15
15	.135	.190	.221	.252	.283	.90	1.20
16	.142	.199	.232	.264	.296	.94	1.25
17	.149	.209	.242	.276	.309	.98	1.30
18	.155	.218	.253	.289	.323	1.02	1.35
19	.162	.227	.264	.300	.336	1.06	1.40
20	.169	.237	.275	.312	.350	1.10	1.45

Source: AIL

The table records kilowatt hours required for extractors of various sizes at increasing running times. A 48" machine draws 1.45 K.W. hours for a 20-minute extraction period; at 2 cents a K.W. hour the power cost is 2.9 cents for the load.

# Finishing Data

Chart Showing Effect of Steam Pressure on Drying Time for Laundry Equipment



Establishing 97 percent moisture removal as proper for actual laundry operation, the chart indicates the importance of adequate steam pressure at the equipment in promoting speedy and effective drying. Note for example, that at 80 pounds pressure, drying time of 26.5 seconds for a shirt cuff is 70.9 percent greater than the time of 15.5 seconds at 100 pounds pressure. Presses used in these tests were covered with new padding. Inadequate padding retards drying time as much as 3 percent of moisture removal for a definite interval of time. For example, using new padding, 97 percent of the moisture was removed from cuffs in 15.5 seconds at 100 pounds pressure. Using old padding, about 94 percent of moisture would have been removed in the same interval of time and a similar working steam pressure.

## Approximate Flatwork Ironer Production Pounds Per Hour

Based on not over 50% retention; 100 lb. steam; good trap system

Type		Flat Roll W.A. & Flat	Family Flat Net Ident.	Family Flat Full Ident.	Commercial Flat Sheets, Cases, Etc.
Chest	8 roll	300-330 lbs.	400-485 lbs.	465-530 lbs.	530-665 lbs.
	6 roll	225-250	300-350	350-400	400-500
	4 roll	150-165	200-235	235-270	270-335
	2 roll	75-85	105-120	120-140	140-175
Double Cylinder	30"	175-190	230-270	270-310	310-385
	24"	115-130	155-180	180-205	205-255
Single Cylinder	48"	160-175	210-245	245-280	280-350
	100" x 16"	37-41	50-58	58-66	66-82

Source: AIL

## Approximate Flatwork Ironer Production Sheets Per Minute

Feeding selvage first, allowing 1 foot between each sheet, 2/3 and full apron speeds, steam at 100 lbs. pressure, 100 percent quality

Type		54" Sheets		63" Sheets		72" Sheets		81" Sheets		90" Sheets	
		2/3	Full	2/3	Full	2/3	Full	2/3	Full	2/3	Full
Handy			2.00		1.76		1.57		1.42		1.29
Chest	2 roll	2.00	4.00	1.76	3.52	1.57	3.14	1.42	2.84	1.20	2.59
	4 roll	4.84	7.28	4.28	6.40	3.81	5.72	3.45	5.17	3.14	4.71
	6 roll	7.28	10.90	6.40	9.80	5.72	8.57	5.17	7.75	4.71	7.07
	8 roll	9.80	14.55	8.64	12.80	7.70	11.42	6.97	10.32	6.36	9.40
Double Cylinder	24"	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71	7.07
	30"	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71	7.07
Single Cylinder	48"	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71	7.07
	16" x 100"		2.73		2.40		2.14		1.93		1.77

Source: AIL

# Production Standards

Because they are the heart of any wage incentive plan, operator production standards are at once the point of highest importance and greatest vulnerability. Production standards for a particular job at a particular plant can be determined *only by time studies conducted for that job at that plant.*

"Standard production is the rate at which a normal average worker performs at an average rate of speed under average working conditions and, as a result, produces an average daily production of average quality. This rate may be expressed in the number of units of output an hour or in the number of hours to produce 100 units."

Although it is impossible to create a single, inflexible set of standards for all laundries, the figures here are helpful as guides for rough estimation or comparison.

## Washroom

Washing and Extracting Crew	Standard Hours Per 100#	Pounds P. O. H.
3	.330	300
3	.385	260
2	.446	224
3	.398	251
4	.359	279
2	.333	300
3	.357	280
2	.287	349

Washroom production standards are difficult to establish even with good time study. In this department the standards differ widely between plants because of substantial differences in equipment, machine loading and workflow. The above table indicates standards determined in average plants washing principally family work.

## Press and Hand Touchup Standards

Type of Equipment	Pressing Points	Hand Touchup Points
2 Small Mushroom and 1 Large Press.	100	100
1 Small Mushroom, 1 Pants Tapper and 1 Large Press.....	100	100
2-No. 165 Presses.....	100	60
2-51" Presses.....	100	60
2-5138 Presses.....	100	60
2-51" x 38" Presses.....	100	60
1 Mushroom and 2 Large Presses.....	100	85 to 100
If the principal press is a flat or square buck press.....	100	50
If largest press in a unit is a 38" press.	60 to 85	60

All standards in either case of pressing or hand touch-up are for one operator working alone, doing no folding and being served by a service operator. 100 points represent one standard hour for producing 100 units.

If net identification is used, a deduction of 10 percent

on press standards must be made. If garments are segregated to obtain press specialization, an increase of 10 to 15 percent of press standards is to be added. For hand touchup without spray iron, points should range from 80 to 90.

Service operator should be able to serve five operators (standard production—500 points).

Heavy work .....	20 to 25 pounds
Light work .....	8 to 10 pounds
Pressing alone .....	10 to 14 pounds

## Assembly and Dispatching

	Production P. O. H.
Fugitives netted, Damp Work packed in cloth bags or packed in wrapping paper. No walking in dispatching work to other departments.....	200 lbs.
Fugitives pinned, Damp Work packed in paper bags, in dispatching work operators walk to other departments .....	160 lbs.
Wrapping Damp Wash and Thrifty, each operator takes down own work.....	20 bundles
Hanging only—Fugitives netted.....	475 lbs.
Fold and wrap Damp Wash & Thrifty Wearing Apparel .....	100 lbs.
Hang, take down and wrap, no folding, pinned Rough Dry Wearing Apparel.....	100 lbs.

## Tumblers

Tumbler Size	Capacity	Time
36" x 18"	20 lbs.	30 min.
36" x 24"	26 lbs.	30 min.
36" x 30"	32 lbs.	30 min.
36" x 36"	52 lbs.	30 min.
42" x 42"	70 lbs.	30 min.
42" x 90"	150 lbs.	30 min.
100 pounds per operator per hour		
Fold and Wrap (Rough Dry Wearing Apparel)—		
750 pieces or 560 pounds per operator per hour		
Fold Bath Towels (24" x 44")		

A bulk system permits greatest production. Usual time for a tumbler load is 25 to 30 minutes. One operator can usually handle three or four small open-end tumblers—loading, unloading, folding and stacking. For the complete operation a worker should produce about 100 pounds per hour at standard, doing the tumbling and folding, using four tumblers.

## Sort, Check and Wrap

(Production Per Operator Per Hour)

Flatwork—40 bundle lot—1 girl sort and check only Fantom Fast.....	365 pieces
Flatwork—100 bundle lot—4 girls sort, check and wrap, black marks.....	350 pieces
Flatwork and W. A.—40 bundle lots—1 girl sort, check and wrap, black marks.....	300 pieces
Flatwork and W. A.—100 bundle lots—1-10 girls, sort, check and wrap, black marks.....	200 pieces
Wearing Apparel .....	135 pieces
Wrap shirts, wearing apparel.....	30-50 bundles

\* AIL Special Report No. 141, "Wage Incentives for Power Laundries."



### Family Bundle Breakdown

In computing the work load of a plant, it is necessary to know the number of incoming bundles, the average bundle content, and standards for each item.

A few years ago a study was made of the number of common wearing apparel pieces in 2,490 family bundles, shirts and flatwork not included. Percentages of the total number of pieces are shown below.

Items	Percent
Pajama Pieces	19.0
Shorts	17.5
Undershirts and Vests	13.6
Dresses (Women's)	7.9
Aprons	6.4
Unionsuits	4.9
Slacks, Trousers	4.7
Bloomers, Panties	4.4
Blouses (Women's)	4.0
Belts	3.8
Nightshirts and Gowns	3.2
Slips and Petticoats	1.9
Uniforms	1.22
Skirt or Pants (Child's)	1.22
Dresses (Child's)	1.20
Skirts	1.0
Blouses (Child's)	0.8
Sweaters and Polos	.72
Brassieres, Halters	.57
Kimonos	.55
Overalls	.40
Playsuits and Rompers	.29
Chemises	.28
Smocks, Gowns	.23
Coats	.14
Neckties	.09

Items such as play clothes and overalls vary considerably throughout the country. It is important, therefore, that individual samplings be made.

### Wearing Apparel Points

Men's Garments	Uniforms and Supply
Shirts, long sleeve	3.5
Shirts, polo	2.6
Shirts, sweat	1.4
Overalls	4.2
Coveralls	7.2
Coveralls, pants crease	11.9
Work pants	5.4
Wash pants, linen	6.2
Wash coats	7.3
Wash vests	1.7
Wash ties	1.9
Shorts	1.8
Shirts (under), wet	1.1
Undershirts, tumbled	.6
B. V. D.	3.1
Jockey shorts	.8
Long underwear	3.3
Nightshirts	3.2
P.J. trousers	2.1
P.J. coats, open	2.8
P.J. coats, closed	2.1
Ladies Garments	
Dresses, plain	3.8
Dresses, fancy	5.5
Sport shirts or blouses	3.0
Aprons, waist	1.0
Aprons, open neck tea	2.0
Aprons, closed neck tea	3.0
Wash coats	4.6
Skirts	2.0
Slacks	4.4
Night gowns	3.2
Slips	1.8
Panties	1.6
Long underwear	3.3
Brassieres	1.4
Uniforms, plain	6.8
Uniforms, fancy	8.4
Aprons, waist	1.0
Aprons, butcher or bib	1.8
Coats	4.5
Vests	1.7
Jackets	3.6
Fracks	5.8
Work pants	5.4
Caps, covers	1.3
Caps, soda	.9
Caps, chefs and grocery	1.4
Caps, nurses	1.1
Head bands	.6
Chair bands & ldy. bags	.7
Miscellaneous	
Belts	.5
Handkerchiefs, box, small flat	.7
Collars and cuffs (each)	.6
Puff caps	.5
Puff or press shoulders	.9
Covers, cushion	1.9
Covers, chair	9.9
Covers, divan	11.5
Bath or beach robes	3.6
Tobletcloths	5.1
Children's Garments	
Boy's pants	2.5
Boy's long trousers	4.1
Boy's blouses	2.6
Child's washcoats	4.2
Child's bathrobes	2.0
Child's dresses	2.8
Child's panties	1.0

### Shirt Production

No. Operators	Description	Shirts P. O. H.
2	Individual collar and cuffs in tandem—fast operators on piece rates. Wide bosom equipment	24
3	Wide bosom equipment	14
6	Wide bosom equipment	16
6	Wide bosom equipment	24
7	Latest bosom equipment. Includes operator on collar pole	14 1/2
8	No collar pole	16
3	Narrow bosom equipment	12
6	Narrow bosom equipment	12
2	Old type collar attached and neckband	15
2	Above, budget bundle quality	20
2	Above, good quality, collar attached only	20
2	Above, good quality, neckband only	12

### General Shirt Standards

	Shirts P. O. H.
Completely Machine Finished, New Modern Equip.	25
Gussets Hand-Touched, Unit includes Collar and Cuff, Sleever, Bosom and Body Yoke Presses	20
Gussets, Yoke and Shoulders Hand Touched, Unit includes Collar and Cuff, Bosom and Body, and Sleever Presses	17

### Identification Production

In Pounds or Pieces Per Operator Per Hour

Identification Dept.	Type of Bundles	Standards
Netting & Classifying	Damp Wash and Thrifty Rough Dry and Finished Family (Deduct 25 lbs. for listing)	240 lbs. 165 lbs.
	Damp Wash, Thrifty, Rough Dry and Finished Family (Deduct 25 lbs. for listing) (Using All Identification Table)	200 lbs. 250 lbs.
Bagging	White Work, pin Color for Pocket Washing	350 lbs.
Counting	Commercial Linen Supply	1000 pieces 1000 pieces
Marking—Pen & Ink	Bundle Work Rough Dry and Finished Family	200 pieces 400 pieces
Marking—Machine	Bundle Work Finished Family	300 pieces
	Bundle Work	225 pieces
Marking—Machine	Rough Dry and Finished Family Bundle Work, Rough Dry and Finished Family	90 lbs. 425 pieces
	Bundle Work	325 pieces
Marking—Marking & Listing Machine	Rough Dry and Finished Family Bundle Work Finished Family	250 pieces 25 bundles 350 pieces
Marking Label Listing Machine	Bundle Work Finished Family	350 pieces
American Clip System	Finished Family	140 lbs.
Fantom Fast System	Rough Dry and Finished Family	400 pieces
Marking—Dry Cleaning	Take Off Buttons, No Cuff Dusting	50 pieces 35 pieces
	Take Off Buttons, Measuring	

NOTE: Figures are with bundle Operator. If none is used, deduct 13%.

### Flatwork Standards

One eight-roll ironer handles all small pieces and is equipped with a stacker. A small conditioning tum-



bler is used for small pieces such as napkins and barber towels; the tumbler operator's time is charged to the crew. The other eight-roll ironer is equipped with a folder and handles only sheets and tablecloths. No shakeout tumbler is used. On commercial sheets, no attention is paid to what side of the sheet gets ironed, and the machine is run at about 80 feet per minute. Two operators lay the sheets out, two feed and one folds. One stacker takes care of tying, weighing and recording for both machines.

Family sheets are run at about 68 feet per minute and must be ironed on the right side. On small tablecloths, each feeder works independently. Although the folding machine works in two lanes and folds tablecloths fed in this way, two operators are needed on folding. With the regular five-girl crew, the one operator available for preparing the tablecloths is unable to keep up with the rest of the crew. A sixth operator must then be added, or one feeder and folder must come back and prepare pieces in advance.

### Typical Flatwork Standards

Shaker	Crew				Av. Wt. per Bdl.	Mach. Speed	Std. Hours for 100 lb.	Lbs. Op. Hour
	Feeder	Folder	Backup	Ironer				
				Family				
2	2	2	1	6R-120"	9.5		2.63	38
2	2	2	1	6R		20'-40'	2.25	45
2	2	2	1	Willey Chest Type		21'-32'	2.85	35
2	2	3		8R-120"		32'	2.272	44
1	2	2	1	6R-110"	5.97	37'	2.91	34.3
2	2	2	1	2-30' Willey 120"	7.6		3.33	30
1	2	2	1	6-Roll	6.7	52'	2.70	37
2	2	2	1	6-Roll 120"	7.8	42'	2.70	37
1	3	3			7.9			33.2
1	2	2			7.9			41.8
	2	2		4-Roll American	Lot 60.6#	15'-24'	1.923	52
				6R-Watts 120	7.5		2.448	41
1	3	3	1	2 36"-120"			3.31	30.2
				Commercial			2.22	45
2	2	2	1	6 Roll 120"		20'-60'	2.15	46.5
1	2	2	1	6 Roll 110"	50.5	37'	2.56	39
1	2	2	1	2-30' Willey 120"			2.60	38.4
1	3	3			18.3			
1	3	3			18.3			32
1	2	2						33.0
	3	3	2	2-30" Watts 120"		32'	2.272	44
	3	4	2	2-30" Watts 120"			3.06	32.7
				6-Roll 120" Watts			3.82	26.2
1	2	2	1	6-Roll American	28.7		3.17	31.5
				Family and Commercial Combined			2.632	38
2	2	2	1	8R-120"			2.56	39
1	2	2	1	4R	6.7	52'	2.70	37
2	3	3	2	2-30' Watts	9.4	32'	3.7	27
1	3	3					2.93	34
1	2	2					2.51	39.9
				6R Watts 120"			3.24	30.8
1	3	3	1	6-Roll American 100"			2.50	40

### Average Production on a Typical Ironer

Article	Crew				Mach. Speed	Lbs. for Piece	Std. Hrs. for 100 Pcs.	Pcs. Op./Hr.
	Shaker	Feeder	Folder	Backup				
Sheets	2	2	2	1	40	1.5	2.88	34.7
	2	2	2	1	46	1.44	2.43	41.3
	2	2	2	1	32	1.44	3.60	27.8
	2	2	2	1	60	1.50	1.50	66.6
Pillowcases	2	2	2	1	20	.29	.855	117
	2	2	2	1	23	.29	.885	113
	2	2	2	1	32	.29	.963	104
	0	2	2	0	19	.287	.575	174
Hand Towels	2	2	2	1	40	.17	.40	250
	0	2	2	0	28	.202	.305	328
Table Linen	2	2	2	1	40	.69	2.66	37.6
	2	2	2	1	36	.69	2.76	36.2
	2	2	2	1	21	.69	3.38	29.6
	0	1	2	3	21	.888	1.46	69.9
Spreads	2	2	2	1	40	2.30	5.93	16.9
	2	2	2	1	36	2.34	5.85	17.1
	2	2	2	1	32	2.34	6.95	14.4
	1	3	3	0	60	1.28	1.85	53.9
Small Pieces	2	2	2	1	36	.17	.532	188
	2	2	2	1	32	.17	.50	200

## Flatwork Ironer Production

Method	Operators					Lbs. Per Operator Per Hour					
	Shakers	Feeders	Folders	Counters	Hand Ironers	4 Roll	6 Roll	8 Roll	1 Cyl.	2 Cyl. 29 Cyl.	2 Cyl. 36 Cyl.
Net	2	2	2	1	1	30	35	35	35	35	35
	3	2	2	1	1		38	38		38	38
	3	2	2	1	1			44			
Fully Identified	2	2	2	1*		40	45	45	40	45	45
	2½	2	2	½*			45	45		45	45
	2½	2	2½	1*			45	45		45	45
	4	3	3	1*				50			
Commercial	2	2	2	1			50	50		50	50
	2½	2	2½	1			50	50		50	50
	3½	2	2½	1			50	50		50	50
Linen Supply	2½	2	2½	1			40	40		40	40
Shake Feed	1	2	2	1	1		35	35		35	35
	1	4	2		1		35	35		35	35
Float Roll	2	2	2	1			32	32			

\* Additional folders.

## Flatwork Standards

With Folding and Stacking Machines

Service	Piece	Pts. Per Lb.	Lbs. P. O. H.
Commercial	Sheets	.7	143
	Pillowcases	1.3	77
	Tablecloths and aprons	1.9	53
	Small pieces	2.5	40
Family	Sheets	.9	111
	Tablecloths	2.2	45.5
	Small pieces & pillowcases	2.5	40

## Flatwork Standards—Family Laundry

Commercial and Linen Supply; 6-Roll Ironer—Shakefeed System; Backfold operator or checker included with crew

Piece	Pieces P. O. H.	Points Per Piece*	Lbs. P. O. H.	Pieces Per 100 Lbs.
Napkins	333	.3	27	1250
Towels	222	.45	31	715
Pillow Cases	91	1.1	46	200
Common Rollers	71	1.4	34	208
Aprons	100	1.0	52	193
Table Pads	25	4.0	50	50
Table Covers	50	2.0	60	83
Spreads, Heavy (1st speed)	18	5.5	46	40
Sheets (3rd speed)	40	2.5	60	67
Sheets (4th speed)	55	1.8	83	67
Bonquet Cloths	23	4.3	58	40

\* Based on 100 points per operator hour.

## Standards and Incentives

Working from extensive time studies conducted on the job, field engineers of the American Institute of Laundering established the following production standards for a typical laundry in the Middle West. Wage incentive payments based on these standards raised the plant-wide production efficiency to 98 percent of standard.

Although careful time studies are necessary before the installation of a workable wage incentive plan, the important factor which must be kept in mind is that of allowing for sufficient flexibility in setting plant standards, in order that adaptation of departmental changes may be readily made to the existing system.

A change in plant layout which permits a more effective workflow, the installation of equipment which re-

sults in greater productivity, as well as fashion changes directly affect the criteria set for production under an incentive system.

There are numerous other factors which must be taken into consideration before an incentive plan is installed in a plant. Therefore, arbitrary standards should not be set; as plant conditions change the incentive system in effect must possess that adaptability which will grant the greatest effectiveness.

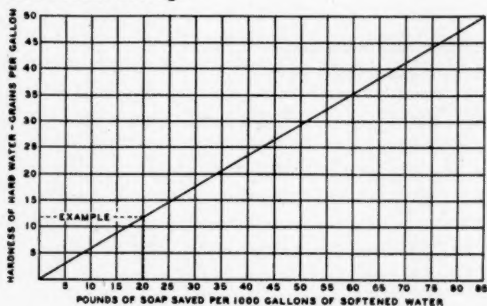
## Operator Production Standards

Typical Midwestern Laundry

Operation Name	Standard Units Per Operator Hour
Pin and Net Identification	165 lbs.
Full Identification	165 pcs.
Wash and Extract	200 lbs.
Damp Assembly and Dispatch	190 bdis.
Damp Assembly and Dispatch	4 lots
Starch Wearing Apparel	18 lots
Flatwork Ironing	35.5 lbs.
Tumble	66.5 lbs.
Wearing Apparel Pressing	80 pts.
Wearing Apparel Touch-Up	80 pts.
Handkerchief Pressing	166 pcs.
Sock Finishing	140 pcs.
Shirt Finishing (Tillor)	22 pcs.
Shirt Finishing (Old American)	16 pcs.
Shirt Shake Out (Prep.)	222 pcs.
Sort and Check (Flatwork and Wearing Apparel Bdle.)	30 bdis.
Wrap	19.6 bdis.
Sort and Check (Family Shirt Bdis.)	240 pcs.
Sort and Check (Bundle Work)	221 pcs.
Sort Flatwork	279 pcs.
Box shirts and Wearing Apparel	272 pcs.
Check and Wrap Flat	239 pcs.
Break and Sort	260 lbs.
Wash	423 lbs.
Extraction	1335 lbs.
Damp Assembly	500 lbs.
Damp Dispatch	490 lbs.
Flatwork Ironing	36 lbs.
Wrap Flatwork	438 lbs.
Handkerchief Pressing	163 pcs.
Tumbling	105 lbs.
Shirt Attaching Clips	120 pcs.
Bundle Work Attaching Clips	184 pcs.
Shirt Finishing	24 pcs.
Wearing Apparel Pressing	100 pts.
Wearing Apparel Touch Up	100 pts.
Bundle Work Assembly	214 pcs.
Bundle Work Detaching Clips	204 pcs.
Shirt Assembly	272 pcs.
Shirt Detaching Clips	191 pcs.

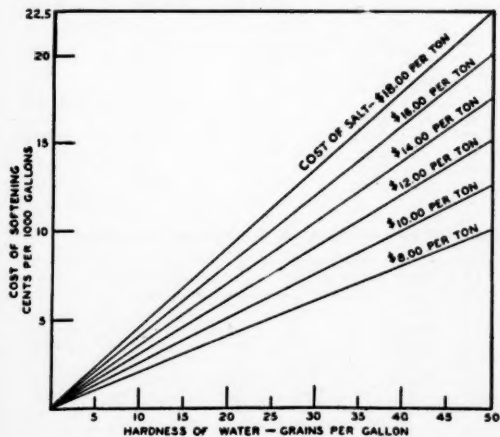
# Water Supply

## Soft Water Savings



The chart plots the amount of soap saved through the use of soft water in the laundry. From the water hardness scale at the left side of the graph, trace right to the slanting line; this point on the lower, horizontal scale gives the pounds of soap saved per 1,000 gallons of softened water. As the dotted lines show in the chart above, with water of 12 grains hardness, 20 pounds of soap are saved for every 1,000 gallons of soft water used for washing.

## Cost of Zeolite Softened Water



With the above chart it is possible to make a rapid estimation of the costs of softening water with a zeolite system. After finding the hardness figure for the water supply in the scale across the bottom of the graph, read up to the diagonal line which gives the local cost of zeolite salt; this point on the left, vertical scale, represents the cost of softening in cents per 1,000 gallons.

## What is pH?

Water is a chemical compound composed of two atoms of hydrogen and one of oxygen ( $H_2O$ ). One of these hydrogen atoms carries a positive electrical charge and is known as the "hydrogen ion." The other

hydrogen atom is combined with the single oxygen atom; and this combination, which has a negative electrical charge, is called the "hydroxyl ion."

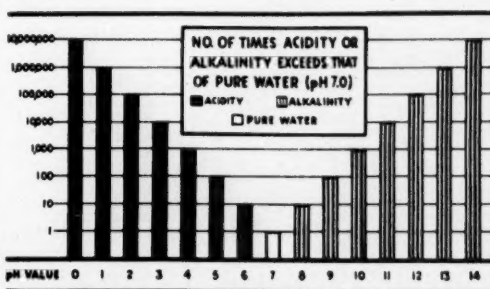
Pure water contains equal numbers of hydrogen ions and hydroxyl ions; thus pure water is neutral since there is a balance between the positive and negative electrical charges. Alkali acts upon the water in such a way as to remove some of the hydrogen ions and build up a hydroxyl concentration. Acid removes some of the hydroxyl ions and builds up a hydrogen concentration.

## Mathematical Basis of pH Scale

pH Value	Hydroxyl Ion Concentration (Moles per liter*)	Hydrogen Ion Concentration (Moles per liter*)
14.0	1.0	.0000000000000001
13.0	.1	.000000000000001
12.0	.01	.0000000000000001
11.0	.001	.00000000000000001
10.0	.0001	.000000000000000001
9.0	.00001	.0000000000000000001
8.0	.000001	.00000000000000000001
7.0—Water—	.0000001	.000000000000000000001
6.0	.00000001	.0000000000000000000001
5.5	.0000000001	.00000000000000000000001
5.0	.00000000001	.000000000000000000000001
3.0	.0000000000001	.00000000000000000000000001
2.0	.000000000000001	.0000000000000000000000000001
1.0	.000000000000000001	.000000000000000000000000000001
0.0	.00000000000000000001	1.0

\* Since the molecular weight of hydroxyl ions is 17 and of hydrogen ions is 1, the value shown times 17 in the case of hydroxyl ions and times 1 in case of hydrogen ions gives actual grams per liter.

## pH Concentration



Note from the figures that each increase or decrease of one pH unit makes a tenfold difference in concentration.

Acids and alkalies are said to be of various "strengths"—that is, they vary in their ability to produce excess hydroxyl or hydrogen ions when dissolved in water. The *pH value test* is a method of measuring the number of excess hydrogen or hydroxyl ions present in a solution. *Titration* is a process for measuring the amount of alkali or acid in a solution. The pH test reflects the *activity* of an acid or an alkali, titration the *actual quantity*.  
(Continued on following page)

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The pH scale is a convenient method of comparing the activity of acid or alkali in solution. The scale runs from 0 to 14. The neutral point is pH 7. Acidity is measured downward from 7 to 0; alkalinity runs from 7 to 14. It will be noted that the scale is worked out mathematically in such a way that the relation of change between one full member and the next is tenfold, as illustrated in the graph and table on page 77.

Laundry practice has shown that certain hydroxyl ion (alkali) concentrations produce maximum detergent action. Bicarbonate in the water supply and soil in the clothes acts as acids and consume hydroxyl ions. In the neutralizing of these factors and the achieving of the alkali concentration required, the pH test is a convenient and necessary yardstick for efficient washroom practice.

Source: Philadelphia Quartz and Diamond Alkali

### Proportions Between Feed Pipes and Main Line

Number of Smaller Pipes to Equal Cross-Sectional Area of One Larger Pipe

Main Line Sizes	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
1/8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1/4	1.6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3/8	2.8	1.8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1/2	4.5	2.8	1.6	1	...	...	...	...	...	...	...	...	...	...	...	...	...
5/8	7.8	4.9	2.8	1.7	1	...	...	...	...	...	...	...	...	...	...	...	...
3/4	10.6	6.7	3.8	2.4	1.4	1	...	...	...	...	...	...	...	...	...	...	...
1	17.6	11.0	6.3	3.9	2.2	1.6	1	...	...	...	...	...	...	...	...	...	...
1 1/4	25	15.7	9.0	5.5	3.2	2.4	1.4	1	...	...	...	...	...	...	...	...	...
1 1/2	39	24.3	13.9	8.6	4.9	3.6	2.2	1.5	1	...	...	...	...	...	...	...	...
2	52	32	18.5	11.4	6.6	4.8	2.9	2.1	1.3	1	...	...	...	...	...	...	...
2 1/2	67	42	24	14.7	8.5	6.3	3.8	2.7	1.7	1.3	1	...	...	...	...	...	...
3	83	52	30	18.5	10.7	7.8	4.8	3.3	2.2	1.6	1.3	1	...	...	...	...	...
3 1/2	105	66	38	23	13.4	9.8	6.0	4.2	2.7	2.0	1.6	1.3	1	...	...	...	...
4	151	95	54	33	19	14.2	8.6	6.0	3.9	2.9	2.3	1.8	1.4	1	...	...	...

Source: A.I.L.

This table may be used when washer feed pipes of one size only are to be taken from a main line. From the chart 8.6, 2-inch pipes are equivalent in cross-sectional area to one 6-inch main. Since the area of the main line ordinarily may be 25 percent less than the total of all pipes running to the washers, ten 2-inch lines may be taken from a 6-inch main.

### Temperature Scale Conversions

To convert degrees Fahrenheit to degrees Centigrade, subtract 32 degrees and multiply by five-ninths. To convert Centigrade to Fahrenheit, multiply by nine-fifths and add 32 degrees. The table below gives comparative Centigrade and Fahrenheit readings with elimination of the decimals for degrees Centigrade.

Fahrenheit	Centigrade
Boiling	212° Point
210	99
200	93
190	88
180	82
170	76
160	71
150	65
140	60
130	54
120	49
110	43
100	38
90	32
80	27
70	21
60	16
50	10
40	4
35	2
Freezing	32° Point
30	—1
25	—4
20	—7
10	—12
0	—18
—10	—23
—25	—32
—40	—40

### Discharge of Cold Water

Flow rated in gallons per minute for pipes of various sizes and water at various pounds of pressure

Water Pressure	1/4 Inch	1 1/2 Inch	2 Inch	3 Inch
15	16.09	83.6	173.5	486.8
20	18.34	100.0	203.0	539.0
30	22.63	122.5	246.0	660.0
40	26.22	141.2	287.4	759.0
50	29.3	157.8	313.2	847.5
60	32.1	173.0	352.2	930.0
70	34.95	187.0	380.8	1002.0
80	37.1	200.0	406.5	1072.5
90	39.39	211.8	443.0	1140.0
100	41.15	223.4	455.1	1200.0

### Table of Water Heads & Equivalent Pressures

To estimate any pressure, multiply the head (in feet) by .433. The result is pounds per square inch. For every 2.3 feet the water head is above the discharge 1 pound per square inch is added to the pressure.

Head in Feet	Pressure Pounds Per Square Inch	Head in Feet	Pressure Pounds Per Square Inch	Head in Feet	Pressure Pounds Per Square Inch
5	2.17	125	54.13	550	238.15
10	4.33	150	64.95	600	259.80
15	6.50	175	75.78	650	281.45
20	8.66	200	86.60	700	303.10
30	12.99	225	97.43	750	324.75
40	17.32	250	108.25	800	346.40
50	21.65	275	119.08	850	368.05
60	25.98	300	129.90	900	389.70
70	30.31	350	151.55	950	411.35
80	34.64	400	173.20	1000	433.00
90	38.97	450	194.85	1100	476.30
100	43.30	500	216.50	1200	519.60

### Dimensions of Standard Wrought Pipe

Adequate water supply in the washroom is dependent upon proper balancing between main lines and washer

Nominal Size in Inches	Actual Inside Diameter (Inches)	Inside Cross-Section Area (Square Inches)
1/8	.269	.057
1/4	.364	.104
3/8	.493	.191
1/2	.622	.304
5/8	.824	.533
1	1.049	.864
1 1/4	1.380	1.495
1 1/2	1.610	2.036
2	2.067	3.355
2 1/2	2.469	4.788
3	3.068	7.393
3 1/2	3.548	9.886
4	4.026	12.730
4 1/2	4.506	15.947
5	5.047	20.006
6	6.065	28.891
7	....	38.484
8	....	50.265
9	....	63.617
10	....	79.539

Source: A.I.L.

feeder pipe requirements. A battery of ten washers, six taking 2-inch lines and four taking 1 1/2-inch lines will require a 6-inch main. From the chart, six 2-inch pipes require  $6 \times 3.355$  square inches + four 1 1/2-inch lines,  $4 \times 2.036 = 28.274$  square inches required. A 6-inch pipe has a total cross-sectional area of 28.891 square inches which will allow for possible future expansion.

Since all washers will not be filling at the same time, a 20 to 25 percent reduction in capacity is permissible between the main line and total requirements of all feeder lines. In the case cited above, a five-inch main would provide 30 percent less water than the 6-inch pipe; this might be satisfactory with staggered loads, but it would allow no provision for future expansion and would be inadequate for peak requirements.

### Expansion of Pipe

Increase in Length Inches per 100 Ft.

Temp. °F.	Steel	Wrought Iron	Brass or Copper	Temp. °F.	Steel	Wrought Iron	Brass or Copper
20	.15	.15	.25	220	1.80	1.85	2.65
40	.30	.30	.45	240	2.00	2.05	2.90
60	.45	.45	.65	260	2.15	2.20	3.15
80	.60	.60	.90	280	2.35	2.40	3.45
100	.75	.80	1.15	300	2.50	2.60	3.75
120	.90	.95	1.40	320	2.70	2.80	4.05
140	1.10	1.15	1.65	340	2.90	3.05	4.35
160	1.25	1.30	1.90	360	3.05	3.25	4.65
180	1.45	1.50	2.15	380	3.25	3.45	4.95
200	1.45	1.65	2.40	400	3.45	3.65	5.25

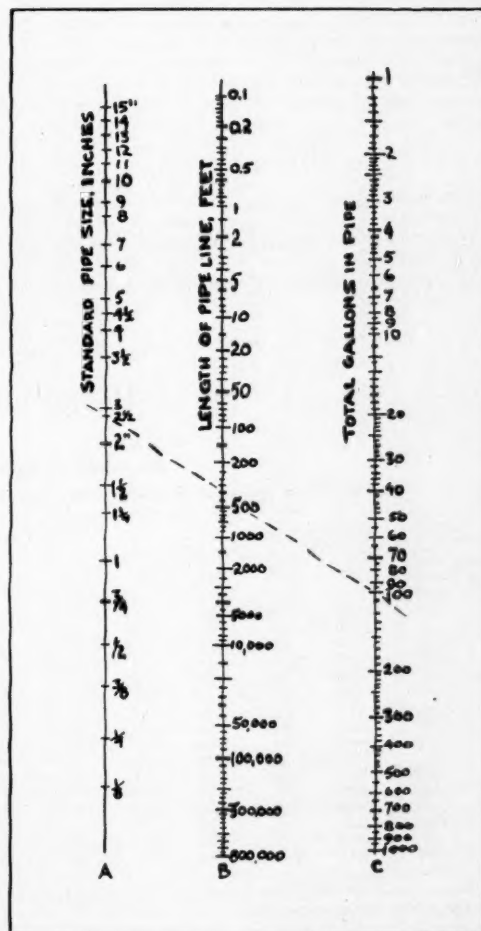
Allowance for expansion in any given run of pipe is dependent upon the variations in temperature to which the pipe will be subjected. The table gives expansion in inches per 100 feet of different type pipes at various degrees temperature. To compute the amount of expansion to be provided in specific lengths of pipe, read from the table the figure showing maximum expansion for 100 feet at the temperature expected. Divide this figure by 100 to determine the expansion per foot and multiply by the length of pipe under consideration. For example, 80 feet of steel pipe taking water at 180 degrees Fahrenheit will require an allowance of 1.16 inches for expansion— $(1.45, \text{from the chart, } \div 100 \times 80 = 1.16 \text{ inches.})$

### Locating Leaks and Stoppages

This chart provides a handy means of locating leaks or stoppages in concealed pipe. It is based on a standard formula for computing the length of standard pipe knowing the number of gallons of water it holds.

To use this chart simply run a straight line through the pipe size, column A, and the gallons of water in the pipe, column C, and the intersection of column B immediately gives the length of the pipe.

To locate concealed leaks, fill the pipe with water until it overflows. Close all valves which hold the water against gravity. Then do nothing for a number of hours, possibly overnight, depending upon the size of the leak and the rate at which the water level in the pipe falls. In other words, allow as much water to leak out as can



leak out. The water will fall in the pipe, of course, until the level reaches the point of leakage. Refill the pipe with water, noting the exact amount of water poured into the pipe. Draw a line on the chart from the pipe



size, column A, to the total number of gallons poured in the pipe column C; the intersection in column B is the distance to the point of leakage. A similar method is often applicable to pipes that are stopped up. You can readily calculate the distance to the point of stoppage.

For example: the dotted line drawn across this chart shows that if the pipe size is 2½ inches, column A, and if 100 gallons of water are poured into the pipe, column C, the trouble is 400 feet away, column B.

### Measuring Pump Efficiency

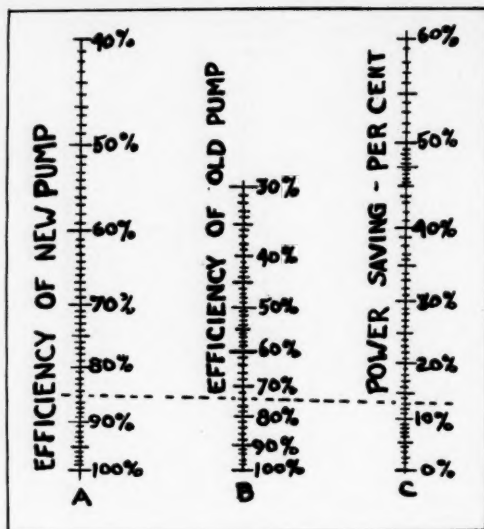
In comparing efficiency of pumps, users often make the mistake of subtracting the efficiency of the old pump from the efficiency of the new pump and calling the difference the improvement in efficiency. The correct method is to subtract the two efficiencies, and then divide the difference by the efficiency of the new pump.

If the efficiency of a present pump is 74 percent and installation of a new pump at 85 percent efficiency is planned, the change will not be worth just 11 percent. Efficiency will improve 13 percent, and it will cost 13 percent less to operate the new pump. For example:

$$0.85 - 0.74 = 0.11$$

$$0.11 \div 0.85 = 0.13$$

The accompanying chart facilitates determination of increases in efficiency without any longhand figuring. Simply run a straight line through the efficiency of the new pump, column A, and the efficiency of the old pump, column B, and the power saving or im-



provement in efficiency is given in column C. The dotted line here runs from the 85 percent efficiency of the new pump through the 74 percent efficiency of the old, and shows in column C that the power saving is 13 percent.

## Useful Information

### Discharge of Air Through an Orifice

In cubic feet of free air per minute at standard atmospheric pressure of 14.7 lbs. per sq. in. absolute and 70° F.

Gauge Pressure Before Orifice in Pounds Per Sq. In.	Diameter of Orifice in Inches												
	1/64	1/32	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1
15	.105	.420	1.68	6.72	26.9	60.5	108	168	242	329	430	672	968
20	.123	.491	1.96	7.86	31.4	70.7	126	196	283	385	503	786	1132
25	.140	.562	2.25	8.98	35.9	80.9	144	225	323	440	575	898	1294
30	.158	.633	2.53	10.1	40.5	91.1	162	253	365	496	648	1013	1458
35	.176	.703	2.81	11.3	45	101	180	281	405	551	720	1125	1620
40	.194	.774	3.10	12.4	49.6	112	198	310	446	607	793	1239	1784
45	.211	.845	3.38	13.5	54.1	122	216	338	487	662	865	1352	1946
50	.229	.916	3.66	14.7	58.6	132	235	366	528	718	938	1466	2111
60	.264	1.06	4.23	16.9	67.6	152	271	423	609	828	1082	1691	2435
70	.300	1.20	4.79	19.2	76.7	173	307	479	690	939	1227	1917	2761
80	.335	1.34	5.36	21.4	85.7	193	343	536	771	1050	1371	2142	3085
90	.370	1.48	5.92	23.7	94.8	213	379	592	853	1161	1516	2369	3411
100	.406	1.62	6.49	26.0	104	234	415	649	934	1272	1661	2595	3737
110	.441	1.76	7.05	28.2	113	254	452	705	1016	1383	1806	2822	4064
120	.476	1.91	7.62	30.5	122	274	488	762	1097	1494	1951	3048	4390
125	.494	1.98	7.90	31.6	126	284	506	790	1138	1549	2023	3161	4552

Table is based on 100% coefficient of flow. For well-rounded entrance multiply values by 0.98. For sharp-edged orifices a multiplier of 0.65 may be used for approximate results.

Source: "Compressed Air Data"

### Computing Capacities of Tanks and Jars

Square or rectangular

1. To compute cubic contents multiply length by width by depth. For example, the cubic contents

of a tank 10 feet long, 6 feet wide and 4 feet deep is 240 cubic feet.

2. Since 1 cubic foot equals 7½ gallons, the tank above would hold 1,800 gallons. ( $7\frac{1}{2} \times 240 = 1,800$  gallons.)



**Cylindrical or round**

1. Square the diameter and multiply by .7854 and then multiply by the length or depth to obtain cubic contents. Capacity of a cylindrical tank 4 feet in diameter and 6 feet in length is 75.3984 cubic feet. ( $4 \times 4 \times .7854 \times 6 = 75.3984$  cubic feet.)
2. With  $7\frac{1}{2}$  gal. per cubic foot the tank would hold 565.49 gal.

Note. When dimensions include both feet and inches or inches alone reduce all to feet or to inches before multiplying. If measurements are all in inches, the answer will be cubic inches. To reduce cubic feet to cubic inches multiply by 1728. (1728 cubic inches = 1 cubic foot.)

**Conversion Ratios**

- 1 gallon of water weighs 8.34 pounds.
- 1 gallon of water contains 231 cubic inches.
- 1 cubic foot of water equals 7.5 gallons.
- 1 cubic foot of water weighs 62.5 pounds.
- 1 horsepower equals 746 watts.
- 1 boiler horsepower equals 34.6 pounds of water evaporated per hour from and at 212 degrees Fahrenheit.

	Multiplied by	Equals
Diameter of circle	3.1416	Circumference of circle
Diameter of circle squared	.7854	Area of circle
Gallons of water	.1377	Cubic feet
Cubic feet of water	62.5	Pounds of water
Gallons of water	8.34	Pounds of water
Feet head of water	.433	Pounds of pressure
Pounds pressure of water	2.31	Feet head
Feet head	.52	Pounds of pressure
(brine sp. gr. 1.21)		
Boiler horsepower	.069	Gals. feed water required per min.
Pounds pressure (brine)	1.92	Feet head
Feet head	.325	Pounds pressure
(gasoline sp. gr. .75)		
Pounds pressure (gasoline)	3.08	Feet head
Inches vacuum	1.132	Feet head
Feet suction lift	.882	Inches vacuum

**Rules for Belts and Pulleys**

**To Find the Lengths of Belts:** Add the diameter of the two pulleys together, multiply by  $3\frac{1}{2}$  and divide the product by two. Add twice the distance between the center of the shafts to the quotient and that will be the length required.

**To Calculate the Power of Belts:** The horsepower of any belt equals its velocity in feet per minute multiplied by its width and divided by 1,000 for single and 700 for double belts. 1 inch single belt, velocity 1,000 ft. per minute equals 1 horsepower. 1 inch double belt, velocity 700 ft. per minute equals 1 horsepower.

**To Find the Diameter of Driving Pulley:** Multiply diameter of driven pulley by the number of revolutions per minute and divide by the number of revolutions of driver. Quotient will be diameter of the driver.

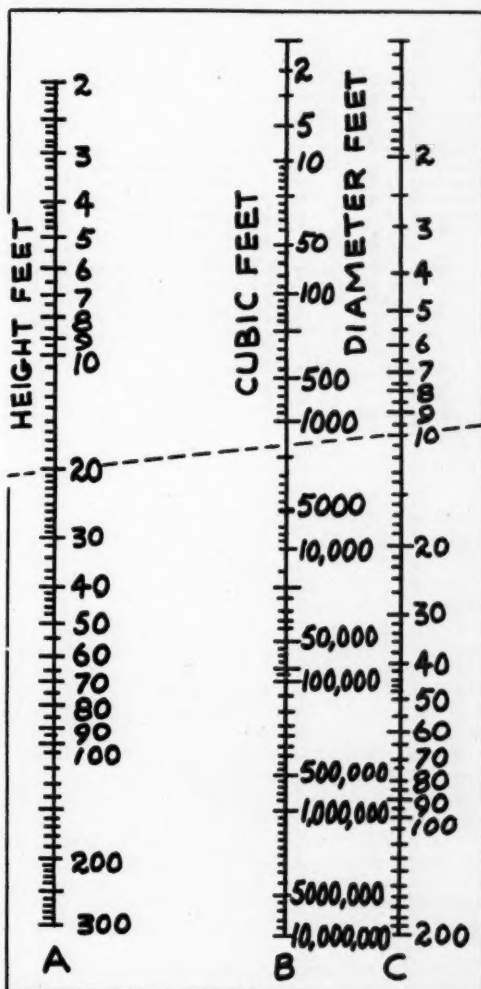
**To Find the Speed of Driving Pulley:** Multiply diameter of the driven pulley by its revolutions per minute and divide by diameter of driver. Quotient will be number of revolutions of driver.

**To Find Diameter of the Driven Pulley:** Multiply diameter of driver by its number of revolutions per minute and divide by number of revolutions of the driven. Quotient will be diameter of driven pulley.

**To Find Speed of Driven Pulley:** Multiply diameter of driver by its number of revolutions per minute and divide by diameter of driven. Quotient will be number of revolutions of driven.

**Computing Cubic Feet in Tanks**

Draw a line across the chart connecting the height of the tank with its diameter. The intersection of this line with column B gives the capacity in cubic feet without further calculation.



For example: a tank 20 feet high, column A, and 10 feet in diameter, column C, is indicated to have a capacity of a little over 1500 cubic feet, column B.

# Power Plant

## Boiler Efficiency Tables

Based on 2% Moisture in Steam

Fuel Oil					Coal				
Actual Evap. Lbs. H <sub>2</sub> O/gal. of oil	Steam Press. Lbs. per sq. in. gauge	Feedwater Temp. °F.	Heating Value of Fuel B.t.u./gal. at 60° F.	Eff. %	Actual Evap. Lbs. H <sub>2</sub> O/lb. of coal	Steam Press. Lbs. per sq. in. gauge	Feedwater Temp. °F.	Heating Value of Fuel B.t.u./lb. as fired	Eff. %
120	125	210	151,000	79.2	11	125	210	14,000	78.3
120	125	200	151,000	80.0	11	125	200	14,000	79.1
120	125	190	151,000	80.8	11	125	190	14,000	79.9
120	125	180	151,000	81.6	11	125	180	14,000	80.7
If evaporation is	125	multiply efficiency by		1.042	If evaporation is	11.5	multiply efficiency by		1.045
If evaporation is	115	multiply efficiency by		0.958	If evaporation is	10.5	multiply efficiency by		0.955
If evaporation is	110	multiply efficiency by		0.917	If evaporation is	10.0	multiply efficiency by		0.909
If evaporation is	105	multiply efficiency by		0.875	If evaporation is	9.5	multiply efficiency by		0.864
If evaporation is	100	multiply efficiency by		0.833	If evaporation is	9.0	multiply efficiency by		0.818
If evaporation is	95	multiply efficiency by		0.792	If evaporation is	8.5	multiply efficiency by		0.773
If evaporation is	90	multiply efficiency by		0.750	If evaporation is	8.0	multiply efficiency by		0.727
If evaporation is	85	multiply efficiency by		0.708					
If heating value of the fuel is	144,000	multiply efficiency by	1.048		If heating value of the fuel is	12,000	multiply efficiency by	1.167	
If heating value of the fuel is	146,000	multiply efficiency by	1.034		If heating value of the fuel is	12,500	multiply efficiency by	1.12	
If heating value of the fuel is	148,000	multiply efficiency by	1.020		If heating value of the fuel is	13,000	multiply efficiency by	1.077	
If heating value of the fuel is	150,000	multiply efficiency by	1.005		If heating value of the fuel is	13,500	multiply efficiency by	1.037	
If heating value of the fuel is	152,000	multiply efficiency by	0.993		If heating value of the fuel is	14,500	multiply efficiency by	0.966	
					If heating value of the fuel is	15,000	multiply efficiency by	0.933	
If pressure is	100 lbs.	multiply efficiency by	.9975		If pressure is	100 lbs.	multiply efficiency by	.9975	
If pressure is	110 lbs.	multiply efficiency by	.9985		If pressure is	110 lbs.	multiply efficiency by	.9985	
If pressure is	120 lbs.	multiply efficiency by	.9995		If pressure is	120 lbs.	multiply efficiency by	.9995	
If pressure is	130 lbs.	multiply efficiency by	1.0005		If pressure is	130 lbs.	multiply efficiency by	1.0005	
If pressure is	140 lbs.	multiply efficiency by	1.0015		If pressure is	140 lbs.	multiply efficiency by	1.0015	
If pressure is	150 lbs.	multiply efficiency by	1.0025		If pressure is	150 lbs.	multiply efficiency by	1.0025	

Determination of boiler efficiency is dependent upon four variable elements: (1) actual evaporation of coal, (2) steam pressure in pounds per square inch, (3) feed water temperature in degrees Fahrenheit, and (4) heating value of the fuel in B.t.u.

In the accompanying table, boiler efficiencies are computed on the basis of varying feed water temperatures while the other three factors remain constant. Boiler efficiencies can be determined using this table together with the correction factors listed for variations in the other three elements.

In the use of these tables the first item to be determined is actual evaporation. This involves two items: the quantity of fuel consumed and the quantity of steam delivered at the boiler nozzle.

The quantity of fuel consumed can be determined by weighing the coal fired or metering the oil fed to the burners. The quantity of oil should be corrected to obtain gallons of oil at 60 degrees F. These correction factors can be obtained from the local fuel dealer for the oil he supplies.

The quantity of steam can be determined by an electrical or mechanical type of steam flowmeter using an orifice plate in the boiler head.

The quantity of water fed to the boiler can be metered by means of a hot water disc meter calibrated in pounds for the average feedwater temperature which

is a less costly method of determining the steam made, though allowance must be made for the loss due to boiler blow-down.

Actual evaporation =

Pounds of water fed to boiler less blow-down

Pounds or gallons of fuel

or

Actual evaporation =

Pounds of steam delivered by the boiler

Pounds or gallons of fuel

Steam pressure is obtained by averaging the hourly pressure readings of the boiler gauge or averaging the reading of a steam pressure recorder.

The average feedwater temperature can be obtained by using a liquid-in-tube type of thermometer in the feedwater line and averaging the hourly reading or averaging the temperature of a feedwater recording thermometer. The heating value of fuel usually can be obtained from a local coal or fuel oil dealer.

Boiler efficiency is an indicator of whether a plant is obtaining steam at the lowest possible cost. The following table shows the average range of efficiency obtained in laundry practice with different types of boilers and methods of firing.

Type of Boiler	Method of Firing	Proper Boiler Efficiency Range
Water-Tube	Oil	77%-81%
Water-Tube	Stoker	75%-79%
Water-Tube	Hand	73%-77%
Fire-Tube	Oil	75%-79%
Fire-Tube	Stoker	72%-77%
Fire-Tube	Hand	70%-74%

If an oil fired fire-tube type of boiler is operating at 68 percent efficiency, changes in firing equipment or furnace design can increase the boiler efficiency to 76 percent, thus giving an 8 percent saving in the annual fuel bill. Boiler efficiency can be used as a starting point in making changes in the boiler room to procure savings that are really hidden profits.

The accompanying data from the log sheets of a typical oil fired and coal fired laundry illustrate the use of the boiler efficiency tables.

### Determining Boiler Efficiency

#### Typical Examples

Oil Fired Laundry	
Steam delivered by boilers.....	70,000 lbs.
Oil consumed by burners.....	608 gals. at 60° F.
Steam pressure, gauge.....	125 lbs./sq. in.
Feedwater temperature.....	194° F.
Heating value of oil, 60° F.....	152,000 B.t.u./gal.

Boiler efficiency is calculated as follows: Actual Evaporation =  $\frac{70,000}{608} = 115$  lbs. steam/gal. of oil. Efficiency for 190° F. feedwater temperature and 120 lbs. steam/gal. of oil and 151,000 B.t.u./gal. of oil from chart.....80.8%.

This table efficiency should be multiplied by .958, the correction factor for 115 lbs. steam/gal. of oil evaporation, and .993, the correction factor for 152,000 B.t.u./gal. of oil.

Boiler efficiency =  $80.8\% \times 0.958 \times 0.993 = 76.9\%$ .

It will be noted in the boiler efficiency tables there is an .8 of one percent drop in efficiency with each ten-degree rise in feedwater temperature; that is, .08 of one percent for each one-degree increase in feedwater temperature. Since makeup water was at 194 degrees in the data above and calculation was based on 190 degrees, a final correction is necessary. This will decrease efficiency by  $0.08\% \times 4 = 0.32\%$  or to.....76.6%.

Coal Fired Laundry	
Water fed to the boiler.....	50,000 lbs.
Coal fired.....	4,750 lbs.
Steam pressure gauge.....	125 lbs./sq. in.
Feedwater temperature, average.....	200° F.
Heating value of coal, as fired.....	13,500 B.t.u./lb.

Boiler efficiency is calculated as follows:

Actual evaporation =  $\frac{50,000}{4,750} = 10.5$  lbs. water/lb. coal.

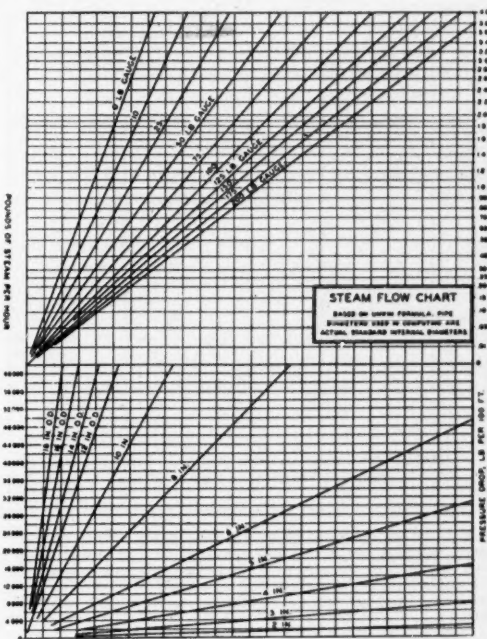
Efficiency for 200° F. feedwater and 11.0 lbs. water/lb. coal evaporation and 14,000 B.t.u./lb. coal, from chart.....79.1%.

This table efficiency should be multiplied by .955 the correction factor for 10.5 lbs. water/lb. coal evaporation, and by 1.037, the correction factor for 13,500 B.t.u./lb. coal.

Boiler efficiency =  $79.1\% \times .955 \times 1.037 = 78.3\%$ .

In both examples above the steam pressure was taken at 125 pounds gauge; thus correction factors for variations in steam pressure were not required. There is a big gain, when operating a steam engine, in running the boiler at higher pressures, although the efficiency is only slightly affected by changes in pressure.

### Steam Flow Chart



Source: "Heating and Ventilating"

The steam flow chart above shows four variable factors: maximum amount of steam, pipe size, steam pressure and permissible pressure drop. If any three of these four factors are known, the remaining factor can be computed from the chart. For example, to estimate pressure drop in 100 feet of 6-inch pipe carrying 40,000 pounds of steam per hour at 200 pounds pressure: on lower chart follow horizontally on "40,000" line to the slanting line marked "6 in.," then read vertically from this point to slanting line in upper chart marked "200 lb. Gauge." Tracing to the scale on the right-hand margin, it will be found that pressure drop under the conditions assumed will be 2.4 pounds per 100 feet of pipe. In a similar manner any one of the four factors may be found readily.

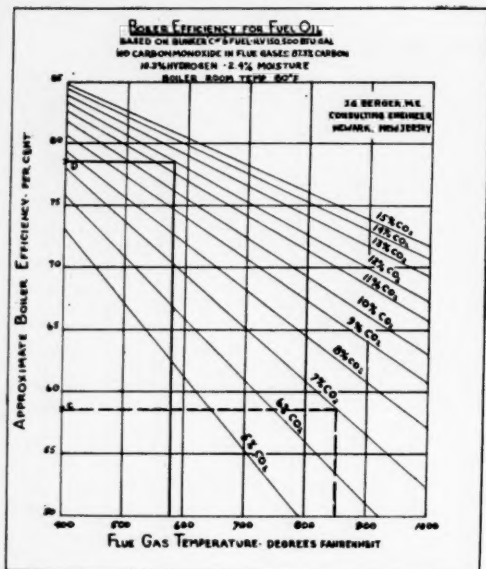
### Detecting Excess Air

An orsat analyzer for flue gases is one of the best devices for detecting excess air in the boiler. It also shows the presence of carbon monoxide. When coal burns it produces carbon dioxide and nitrogen. CO<sub>2</sub> (carbon dioxide) is formed from the carbon in the coal and the oxygen in the air. Nitrogen makes up about 80 percent of the air.

If undue quantities of air are allowed to enter the

firebox, the combustion will show a waste in the form of unused oxygen and nitrogen. The lower the carbon dioxide the more air is being used. A CO<sub>2</sub> reading of 16 percent in flue gas—an approximate figure varying with the type of coal burned—usually means perfect combustion. A carbon dioxide reading of 12 percent or 10½ percent is good and usually means 50 to 75 percent of excess air is entering under and through the fire.

### Boiler Efficiency Chart for Fuel Oil



Degrees of flue gas temperature and CO<sub>2</sub> content known, the chart above indicates boiler efficiencies for oil burning power plants. Find the flue gas temperature on the lower scale and follow up to the diagonal line designating CO<sub>2</sub> percentage; the point of intersection at the left gives the approximate boiler efficiency. The dotted line "C" illustrates that a boiler with a flue temperature of 850 degrees and 7 percent CO<sub>2</sub> content will have an efficiency of approximately 58.5 percent. Lowering the temperature to 580 degrees and increasing the CO<sub>2</sub> to 12 percent would bring boiler efficiency up to 78.5 percent as is indicated by solid line "D"

### Formulae for Computing Oil Consumption

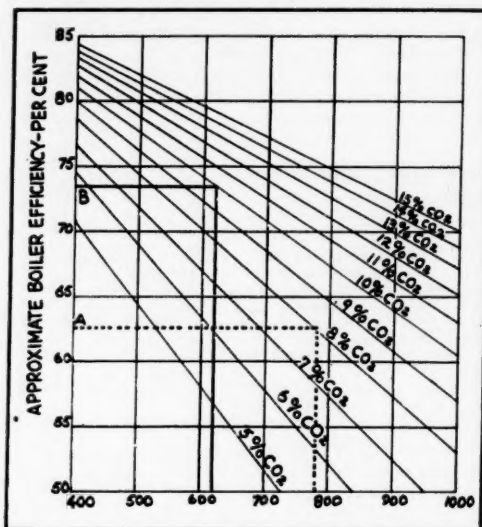
When present consumption in tons of coal is known:

$$\frac{\text{Tons coal} \times 2000 \times \text{B.t.u. per lb.} \times \text{Efficiency}}{\text{Oil B.t.u. per gallon} \times \text{Efficiency}} = \text{Gals. oil required}$$

When present consumption in cubic feet of gas is known:

$$\frac{\text{Cubic feet gas} \times \text{B.t.u. per cubic foot} \times \text{Efficiency}}{\text{Oil B.t.u. per gallon} \times \text{Efficiency}} = \text{Gals. oil required}$$

### Boiler Efficiency Chart for Soft Coal



—J. G. Berger, M. E.

Flue Gas Temperature—Degrees Fahrenheit

Based on the flue gas temperature and CO<sub>2</sub> content, the chart provides an approximate efficiency rating for coal fired boilers. To compute the efficiency of an installation with a flue temperature of 620 degrees and CO<sub>2</sub> content of 10 percent, trace up from the 620 point at the bottom of chart to the diagonal line representing 10 percent; this point of intersection gives an approximate boiler efficiency rating of 73.5 percent on scale along the left margin

### Condensate Tables for Bare Iron or Steel Pipe

This table shows amount of condensate formed in iron or steel pipes, per linear foot of pipe per hour at various steam pressures. It is based on pipe surrounded by air at a temperature of 0° F. to allow for extreme conditions.

Pipe Size	Surface Per Linear Ft. of Pipe	Pounds of Condensate Per Linear Foot of Pipe Per Hour								
		Steam Pressure Gauge								
		1#	2#	5#	10#	30#	50#	75#	100#	125#
¾"	.275	.170	.172	.185	.200	.260	.290	.325	.321	.330
1"	.344	.207	.210	.226	.230	.310	.355	.410	.448	.470
1¼"	.435	.249	.255	.280	.300	.390	.440	.510	.557	.570
1½"	.498	.290	.305	.316	.330	.430	.497	.580	.630	.670
2"	.622	.355	.360	.387	.420	.520	.610	.710	.778	.830
2½"	.753	.419	.425	.458	.500	.650	.728	.840	.918	.975
3"	.917	.500	.510	.545	.580	.730	.864	.990	1.097	1.180
4"	1.178	.627	.635	.680	.730	.925	1.083	1.230	1.375	1.475
5"	1.456	.775	.785	.826	.920	1.160	1.320	1.510	1.675	1.780
6"	1.734	.900	.910	.972	1.070	1.350	1.555	1.780	1.980	2.150
8"	2.257	1.140	1.155	1.247	1.370	1.720	2.000	2.290	2.550	2.790
10"	2.519	1.410	1.430	1.550	1.700	2.150	2.485	2.850	3.170	3.460
12"	3.338	1.630	1.665	1.815	2.000	2.520	2.910	3.340	3.710	4.060

Source: V. D. Anderson Co.

**Boiler Heat Balances**

For Good, Fair and Poor Operating Conditions

	Coal			Fuel Oil			Natural Gas			
	Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor	
Heat lost in Unburned Coal.....	0.4	1.5	5.0	0.2	0.6	6.0	0.2	0.6	5.0	Controllable Losses
Heat lost in Unburned Gas (CO, etc.).....	0.2	0.4	5.0	0.2	0.6	6.0	0.2	0.6	5.0	
Sensible Heat lost in Products of Combustion.....	4.8	6.8	10.8	4.8	6.8	10.8	4.8	6.8	10.8	
Heat lost in Excess Air.....	0.9	1.9	10.3	0.7	1.9	10.3	0.7	1.9	10.3	Fixed Losses
Latent heat lost in Water Vapor Products of Combustion.....	2.7	2.9	3.0	5.5	5.5	5.5	9.1	9.1	9.1	
Radiation and Unaccounted for Heat Losses (by difference).....	1.2	2.5	4.0	1.2	2.5	4.0	1.2	2.5	4.0	
Heat used in Generating Steam.....	89.8	84.0	61.9	87.6	82.7	63.4	84.0	79.1	60.8	Steam
Based on Flue Gas Temperature, °F.....	300	400	600	300	400	600	300	400	600	
Based on Excess Air, percent.....	20	30	100	15	30	100	15	30	100	

Source: Baily Meter Co.

A boiler 84 percent efficient employs 84 percent of the B.t.u. in the fuel for the generation of steam. The table above quotes the percentages of B.t.u. dissipated in various ways for coal, oil and gas fired boilers under good, fair and poor operating efficiencies. These percentages are grouped under controllable losses, fixed losses and those used in generation of steam.

A good installation using coal has an efficiency of 89.8

percent while with a poor installation the efficiency falls to 61.9 percent. Controllable losses are 31.1 percent for the poor coal fired installation and only 6.3 percent for the good installation.

Not all controllable losses may be eliminated; to greatly reduce some may increase others. For instance, if excess air is reduced too much, the saving will be offset by increasing losses from unburned gases or smoke.

**Storage Heater Requirements**

	General Ldy.			Wet & Family			Flat Work Ldy.		
	Number Washers	Gallons Per Hour	Engine Horsepower	Gallons Per Hour	Engine Horsepower	Storage Size (Gallons)	Gallons Per Hour	Engine Horsepower	Storage Size (Gallons)
1	Small	75	3	100	4	100	150	6	100
	Med.	100		150		150	250		150
	Big	140	5	200	6	175	350	8	175
2	Small	150	5	150	6	150	300	8	150
	Med.	200		200		175	500		175
	Big	280	8	250	9	200	700	11	200
3	Small	225	8	250	9	200	450	10	200
	Med.	300		300		250	750		250
	Big	420	12	400	11	300	1050	13	300
4	Small	300	9	300	11	250	575	12	250
	Med.	400		400		300	950		300
	Big	550	15	500	14	400	1350	16	400
5	Small	350	12	400	12	300	700	14	300
	Med.	475		500		400	1150		400
	Big	675	20	600	16	500	1650	20	500
6	Small	400	18	500	15	400	825	16	400
	Med.	550		600		500	1350		500
	Big	775	25	700	20	600	1950	23	600
7	Small	450	20	600	16	500	950	18	500
	Med.	625		700		600	1550		575
	Big	900	30	800	20	700	2250	25	650
8	Small	500	25	700	18	600	1075	20	575
	Med.	700		800		700	1750		650
	Big	1015	35	900	25	800	2525	28	725
9	Small	550	30	800	20	700	1200	25	650
	Med.	775		900		800	1950		725
	Big	1125	38	1000	28	900	2800	33	800
10	Small	600	35	1000	25	800	1325	27	725
	Med.	850		1100		900	2150		800
	Big	1240	45	1200	33	1000	3075	37	875
11	Small	650	40	1100	28	900	1450	30	800
	Med.	925		1200		1000	2350		875
	Big	1350	50	1300	35	1100	3350	40	950
12	Small	700	45	1300	30	1000	1575	35	870
	Med.	1000		1400		1100	2550		950
	Big	1460	60	1500	38	1200	3600	45	1025

Source: Whitlock Mfg. Co.

Although no definite rule can be applied to the selection of the proper storage heater to cover conditions in every laundry, this table indicates requirements usually applicable to various types and sizes of plants. Output in gallons per hour is figured for a temperature increase of from 40 degrees to 180 degrees Fahrenheit. Heating

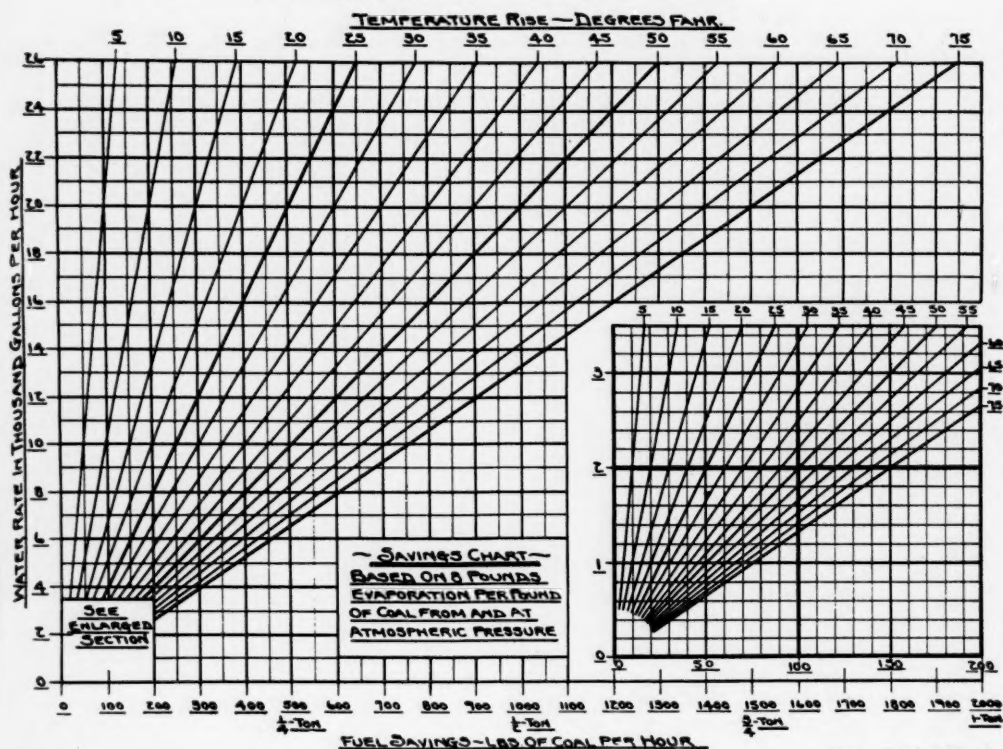
to 160 degrees, it is possible to obtain one-fifth more water with the same engine and heating unit. In those plants where a preheater is used and water comes to the storage heater at temperatures well above 40 degrees, proper allowance must be made in the heater size chosen.



Table of Stack Proportions

Boiler H.P.	Size of Stack						Cubic Feet of Combustion Chamber		
	Hand Fired		Stoker Fired		Oil Fired		Hand Firing 65% Eff.	Stoker Firing 70% Eff.	Oil Firing 75% Eff.
	Dia.	Height	Dia.	Height	Dia.	Height			
50	24"	50'	21"	50'	18"	60'	57.5	55	77
100	30"	70'	27"	60'	24"	60'	115	110	154
150	36"	70'	30"	70'	24"	90'	172.5	165	231
200	42"	70'	36"	60'	30"	80'	230	220	308
300	48"	80'	42"	70'	36"	80'	345	330	462
500	54"	125'	48"	100'	42"	90'	575	550	770
1000	72"	150'	66"	100'	54"	100'	1150	1060	1540

Fuel Savings Produced by Waste Water Heat Exchangers



Source: Whitlock Mfg. Co.

The graph plots fuel savings in pounds of coal per hour for waste water heat exchangers operating at various capacities and producing various degrees of temperature rise. From the water rate in thousands of gallons per hour at the left of the chart, read right to the slanting line marking the number of degrees temperature rise produced; read down to the bottom of the scale to find the approximate pounds of coal saved under the conditions assumed. For example, waste water heat exchanger taking 8,000 gallons of water an hour and raising the temperature 50 degrees F. will save 400 pounds of coal per hour under the conditions above. These figures are based on an assumption of eight pounds of water evaporated per hour per pound of coal; if the Btu content of the fuel or the efficiency of the boiler produces a higher evaporation rate, the saving in actual pounds of coal using the heat exchanger will be proportionally less.

### Diesel Fuel Consumption

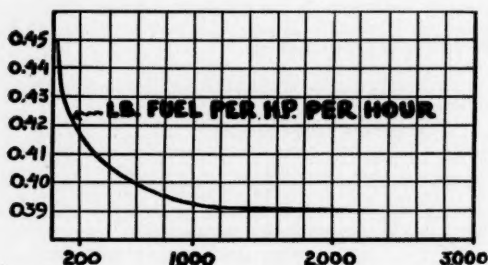
The accompanying chart plots approximate fuel consumption of various diesels, based on prewar diesel efficiencies.

For instance, if requirements are very small—50 horsepower or even less—figure on a fuel consumption of 0.45 pounds per horsepower per hour with a modern

engine. If a 100 h.p. diesel is employed, the consumption will be about 0.42 pounds per horsepower per hour. The curve shows that with increase in engine size the fuel consumption improves rapidly from the smallest sizes to 200 horsepower. From 200 to 1,000 horsepower the improvement is less rapid. And from 1,000 to 3,000 horsepower the improvement is very slight; it is practically

0.39 pounds per horsepower per hour for all of the sizes in that range.

To determine the efficiency of any engine size, with any fuel, multiply the B.t.u. value of the fuel per pound by the number of pounds per horsepower per hour and divide the product into 2,546.



For example, if the fuel contains 20,000 B.t.u. per pound and requirements call for a 500 h.p. engine, multiply 20,000 by (from the chart) 0.40, which gives 8,000 as the product. Now divide 2,546 by 8,000 and it will be found that the engine will have an efficiency of 31.8 percent, which is a high efficiency as compared with most engines of other types. This means that 31.8 percent of the heat contained in the fuel will be converted into work.

Even at 0.45 pounds of fuel per horsepower per hour, other conditions being the same, efficiency will be 28.3 percent.

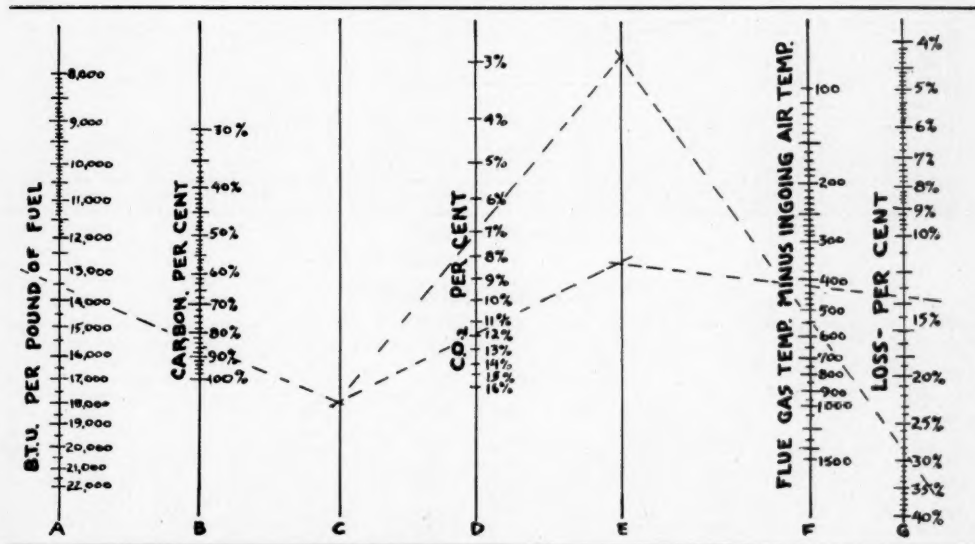
#### Steam Temperatures at Various Pressures

Lbs. Pressure Per Sq. Inch	Temperature ° F.*	Lbs. Pressure Per Sq. Inch	Temperature ° F.*
0#	212°	65#	312°
5	227	70	316
10	239	75	320
15	250	80	324
20	259	85	328
25	267	90	331
30	274	95	335
35	281	100	338
40	287	105	341
45	292	110	345
50	298	115	348
55	303	120	351
60	307	125	353

\* Fractional temperatures to nearest integer.

Water boils at 212 degrees Fahrenheit or 100 degrees Centigrade. As the steam begins to form in a closed container the pressure rises and the temperature of the steam increases. Temperature of saturated steam varies directly with the pressure in the boiler. A press taking steam at 100 lbs. pressure will yield a surface temperature of 338 degrees Fahrenheit.

#### Computing Heat Loss in the Flue



Using this chart to compute heat loss in flue, zigzag a ruler from left to right, as shown by dotted lines.

For example, the heat value of coal used in a certain plant is 13,500 B.t.u. per pound; 85 percent of the coal is carbon; the flue gas contains seven percent  $\text{CO}_2$ ; the flue gas temperature is 600 degrees F.; and the temperature of the air entering the furnace is 75 degrees F. What is the heat loss up the chimney due to

low  $\text{CO}_2$  and the temperature rise of (600 degrees minus 75 degrees) 525 degrees F.?

Applying the chart, the dotted lines show the solution of the problem as follows: run a straight line through the 13,500 B.t.u., column A, and the 85 percent carbon, column B, and locate the intersection in column C. Then run a line through that point in column C and the seven percent  $\text{CO}_2$  in column D, locating a point in

column E. Trace a line through that point in column E and the 525 degree difference, column F, and the intersection with column G shows the fuel loss to be 27.7 percent.

Assume furnace conditions are improved to the extent that CO<sub>2</sub> becomes 12 percent and flue gas temperature is reduced to 500 degrees F. Temperature of air entering the furnace is still 75 degrees F., hence the "difference," column F, is 425 degrees.

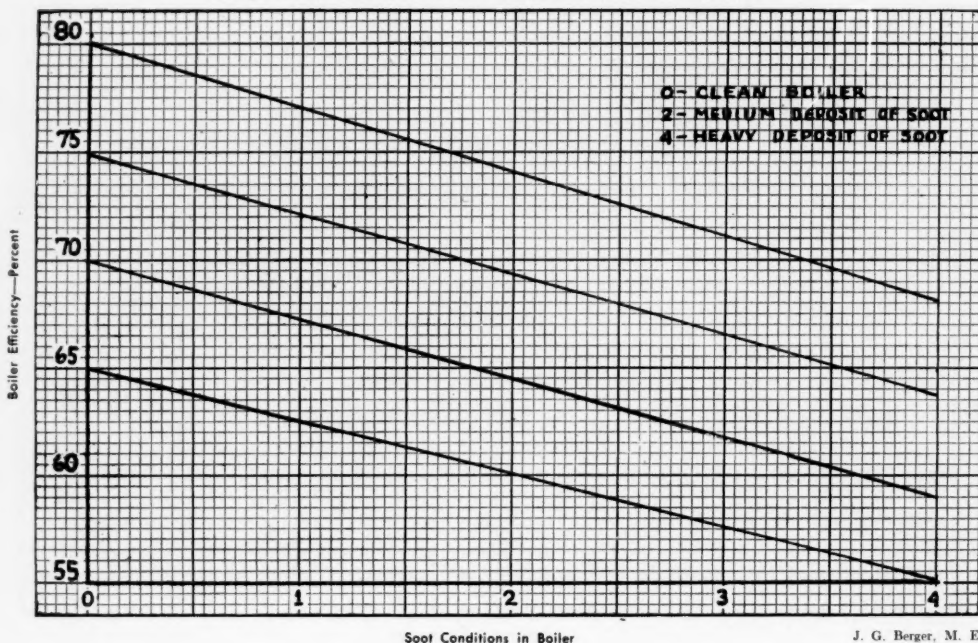
Applying the chart, the same point in column C is

located as already indicated. Then run a straight line through that point and the 12 percent CO<sub>2</sub> in column D, locating a new point in column E. Then from this latter point run through the 425 degrees in column F and the fuel loss, as indicated in column G, is found to be 13.7 percent.

Obviously now, the saving in fuel due to improvement in conditions is the difference between the two losses as computed above: 27.7 percent minus 13.7 percent = 14 percent saving.

### Effect of Soot on Boiler Efficiency

Changes in Boiler Efficiency Due to Accumulating of Soot on Boiler Heating Surfaces



### Heat Loss in Flue Gas

Including losses with varying amounts of excess air and moisture and hydrogen losses for high- and low-moisture, high-volatile bituminous coal

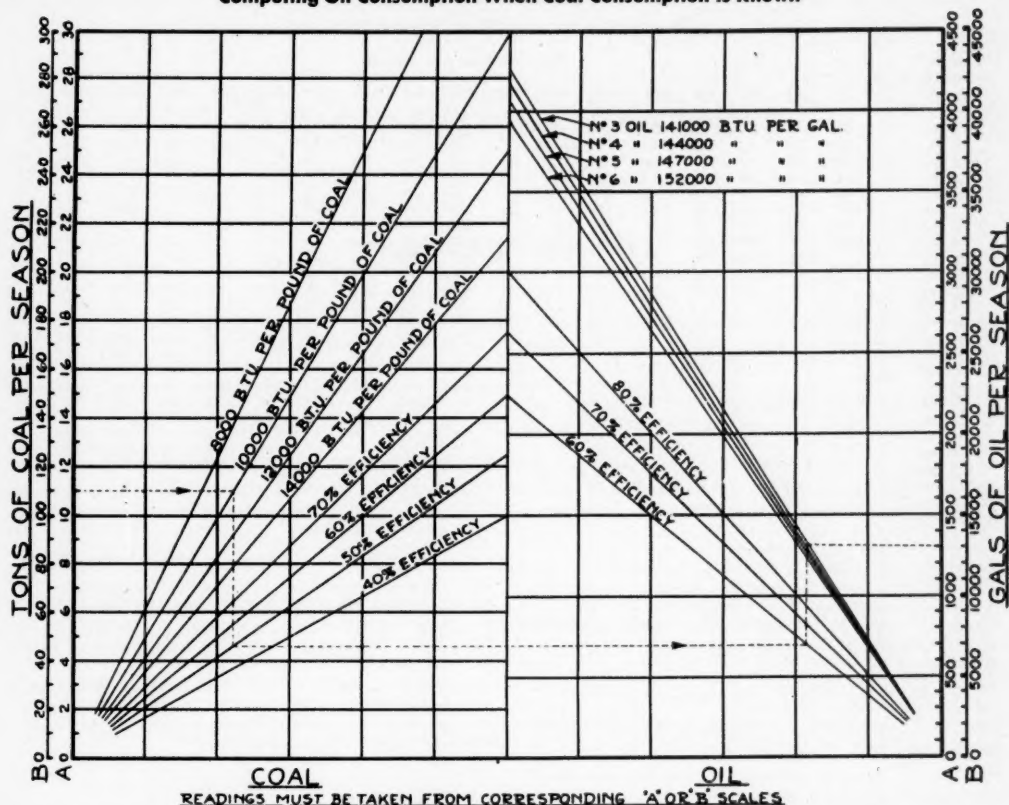
Excess Air %	CO <sub>2</sub> %	Illinois Coal Flue-gas temperature					West Virginia Coal Flue-gas Temperature				
		300F	400F	500F	600F	700F	300F	400F	500F	600F	700F
125	8	14.5	19.0	23.5	28.0	33.0	13.5	18.0	22.5	27.0	32.0
100	9	13.5	18.0	22.0	26.0	30.0	12.5	17.0	21.0	25.0	29.0
80	10	12.5	16.5	20.0	23.5	27.5	11.5	15.5	19.0	22.5	26.5
65	11	12.0	15.5	18.5	22.5	25.5	11.0	14.5	17.5	21.5	24.5
50	12	11.5	14.5	17.5	21.0	24.5	10.5	13.5	16.5	20.0	23.5
40	13	11.0	13.5	16.5	20.0	23.0	10.0	12.5	15.5	19.0	22.0
30	14	10.5	13.0	16.0	19.0	22.0	9.0	12.0	15.0	18.0	21.0
25	15	10.0	12.5	15.5	18.5	21.0	9.0	11.5	14.5	17.5	20.0
Moisture and hydrogen losses alone, %		4.7	4.9	5.1	5.3	5.5	3.7	3.9	4.1	4.3	4.5

This table assumes all carbon in the coal burned, no CO in the gas and no carbon lost as coke in the ash or as soot. Where the carbon lost in the ash and refuse is under 4 percent of the total heat loss, this table is accurate within about 2 percent.

Note the effect of reducing flue temperature 100 degrees F. and increasing CO<sub>2</sub> content 2 percent at the same time.

The difference is a direct increase in boiler efficiency, and a straight saving in the fuel cost.

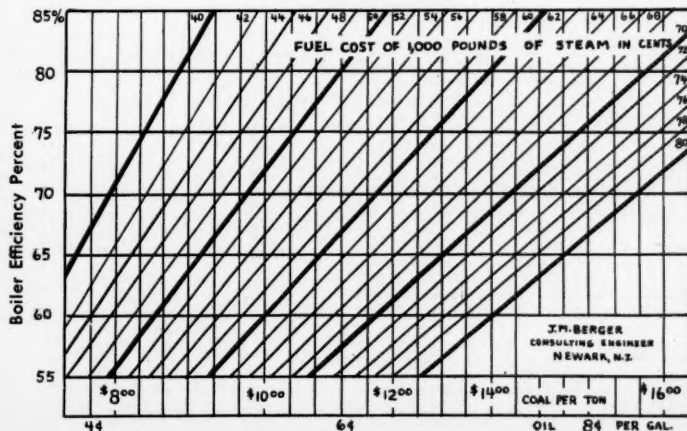
## Computing Oil Consumption When Coal Consumption Is Known



READINGS MUST BE TAKEN FROM CORRESPONDING 'A' OR 'B' SCALES

When coal consumption is known, this chart permits ready estimation of comparative gallons of oil required. Locate coal consumption on left-hand A or B scale, read right to the heat content, down to the efficiency curve. From this point trace horizontally right to the assumed oil efficiency, up to the grade of oil assumed, then right to the corresponding A or B scale for oil and read to the comparative oil consumption. As illustrated in the dotted lines above, if a plant burns 110 tons of 10,000 B.T.U. coal at an efficiency of 50 percent, a comparative oil burning installation using No. 4 oil at 60 percent efficiency will require 13,000 gallons of oil for the same period. The chart may be used in reverse when oil consumption is known to estimate comparative tons of coal needed for a like period of time.

## Steam Cost Chart



Based on 14,000 B.T.U. per pound of coal and 150,000 B.T.U. per gallon of oil  
steam pressure 105 pounds ga., moisture 2%, feed water 205° F.

Chart indicates the cost of steam at varying prices for coal and oil with different over-all operating efficiencies. From cost of oil or coal at the bottom of chart trace up to point of assumed boiler efficiency on the scale at the left. The point of intersection on the slanting line will show fuel costs per 1,000 pounds of steam and can be read to nearest cent or to a tenth of a cent by proportion. For example, a laundry using No. 6 Bunker C oil selling at 5.2 cents per gallon with a boiler of 65 percent efficiency will be paying 53.4 cents per 1,000 pounds of steam. Improving the boiler efficiency to 75 percent will cut steam cost to 46 cents, resulting in a saving of 7.4 cents per 1,000 pounds. Or a 70 percent efficient boiler burning 14,000 B.T.U. coal selling at \$10 per ton will deliver 1,000 pounds of steam at 51 cents per thousand pounds. This chart may be used in plotting the comparative costs of coal and oil or for figuring possible savings from stokers and combustion controls. If fuel costs go higher than shown on chart use one half fuel cost and multiply resulting cost of steam by 2.

**Table of Factors**  
For Determining Trap Capacities at Reduced Pressure

Minimum Operating Pressure	Maximum Operating Pressure																	
	5#	10#	15#	20#	30#	40#	50#	60#	70#	80#	90#	100#	125#	150#	200#	225#	250#	300#
1/10 lb.	.14	.10	.09	.08	.07	.06	.05	.05	.05	.04	.04	.04	.04	.04	.03	.03	.03	.03
1/4 lb.	.22	.16	.14	.12	.10	.09	.08	.07	.07	.06	.06	.06	.06	.05	.05	.04	.04	.04
1/2 lb.	.32	.22	.19	.17	.14	.12	.11	.10	.09	.09	.08	.08	.07	.07	.06	.06	.05	.05
1 lb.	.45	.32	.26	.23	.19	.17	.15	.14	.13	.12	.11	.11	.10	.10	.09	.08	.08	.08
2 lbs.	.63	.45	.36	.33	.27	.23	.20	.19	.18	.17	.16	.16	.15	.13	.12	.11	.11	.11
3 lbs.	.78	.55	.45	.40	.33	.29	.27	.24	.23	.21	.20	.19	.18	.16	.15	.14	.13	.13
4 lbs.	.89	.64	.52	.46	.38	.33	.30	.27	.26	.24	.23	.23	.20	.19	.17	.16	.15	.15
5 lbs.	1.00	.71	.58	.52	.43	.37	.34	.31	.29	.27	.26	.25	.23	.21	.19	.18	.18	.16
10 lbs.		1.00	.82	.72	.61	.52	.48	.44	.41	.39	.37	.36	.32	.30	.27	.26	.25	.23
15 lbs.			1.00	.85	.73	.62	.59	.56	.51	.48	.45	.43	.39	.36	.32	.30	.29	.27
20 lbs.				1.00	.83	.73	.66	.61	.58	.55	.51	.49	.44	.42	.36	.34	.33	.31
25 lbs.					.91	.80	.73	.69	.65	.61	.55	.53	.47	.46	.40	.38	.37	.34
30 lbs.					1.00	.88	.79	.75	.70	.66	.60	.59	.54	.50	.45	.42	.41	.38
40 lbs.						1.00	.90	.84	.80	.76	.69	.67	.61	.57	.50	.48	.46	.43
50 lbs.							1.00	.93	.89	.84	.78	.75	.68	.63	.56	.53	.51	.48
60 lbs.								1.00	.93	.88	.83	.80	.73	.68	.60	.57	.55	.52
70 lbs.									1.00	.94	.89	.85	.78	.73	.64	.61	.59	.55
80 lbs.										1.00	.95	.91	.82	.75	.68	.66	.63	.59
90 lbs.											1.00	.95	.87	.81	.71	.68	.66	.61
100 lbs.												1.00	.91	.85	.75	.73	.70	.64
125 lbs.													1.00	.93	.83	.80	.75	.71
150 lbs.														1.00	.89	.86	.80	.75
175 lbs.															.94	.92	.87	.81
200 lbs.															1.00	.96	.90	.85
225 lbs.																1.00	.97	.90
250 lbs.																	1.00	.93

Source: V. D. Anderson Co.

Although a steam trap will operate at pressures below those for which it is designed, the capacity decreases with the fall in pressure. The table above gives correction factors for determining trap capacities at reduced pressures. Locate the normal operating pressure in the top line; follow down this column to the reduced pressure desired. The point of intersection shows the correction factors; multiply the normal trap capacity by the cor-

rection factor, and the product is the trap capacity under the reduced pressure. For example, if a trap designed for 235 pounds pressure delivers 1800 pounds of condensate per hour at maximum operating pressure, at 70 pounds pressure the capacity will be  $1800 \times .61$ , correction factor in this case, = 1098 pounds of condensate per hour at the reduced pressure. Excess condensate in heated equipment lowers the temperature.

### Flexible Metal Hose—Lengths and Minimum Bending Distances

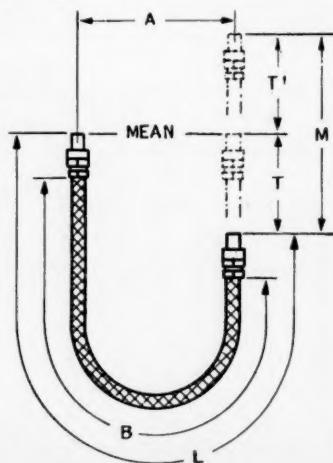
Length of hose includes three factors: Bending Distance A, Travel of Hose M (T + T') and Coupling Factor C. With installation at minimum bending distance A and no travel, take length L from table. For hose subject to travel and installed at distance A, take L from table and add one-half travel when T and T' are equal; when they are not, add the larger. To calculate hose length independently, use following formulae:

Hose I. D.  $\frac{1}{4}$ " to 2": Length L =  $2\frac{1}{2}$  A + C + T (use T or T' whichever is greater)

Hose I. D.  $2\frac{1}{2}$ " to 6": Length L =  $1\frac{3}{4}$  A + C (no travel)

HOSE I. D.	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"
A	8"	10"	12"	16"	18"	20"	24"	26"
B	20"	24"	30"	38"	44"	50"	56"	62"
C	4-1/2"	5"	5-1/2"	6"	7"	7-1/2"	8"	8"
L	25"	29"	36"	44"	51"	58"	64"	70"

HOSE I. D.	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
A	28"	30"	64"	72"	78"	84"	108"	120"
B	68"	72"	9' 6"	10' 4"	11' 4"	12' 6"	18 FT.	18 FT.
C	9"	9"	9"	11"	-	-	-	-
L	77"	81"	10 FT.	11' 6"	-	-	-	-



Source: Packless Metal Products Corp.



# Drycleaning Section

## Synthetic Solvents

Each of the three synthetic fluids used in the drycleaning industry—carbon tetrachloride (including carbon tetrachloride-base blended fluids), trichlorethylene and perchlorethylene—has its own particular application.

Likewise, there are three main classes of synthetic drycleaning machines:

**Washer-Cabinet-Drier Systems:** Garments washed and extracted in same basket, removed from basket and hung in ventilated cabinet to dry.

**Washer-Drier Systems:** All washing, extracting, drying or deodorizing done in same basket. Solvent left in garments after extraction is not recovered.

**Washer-Recovery Systems:** Garments washed, extracted and dried in one basket. Solvent left in garments after extraction is recovered by recirculating air which is alternately heated and cooled.

### Physical Properties

Physical and chemical properties of drycleaning solvents as they apply to design of drycleaning machine:

**Washer:** Rapid cleaning possible with chlorinated solvents because of their high solvent power for grease and rapid penetration rate.

**Carbon tetrachloride and perchlorethylene**—cleaning powers just about equal.

**Trichlorethylene**—most efficient fluid for soil removal.

Therefore, machine having large capacity per hour may be built around a relatively small basket by allowing a number of loads to be processed per hour.

**Extractor:** Difference in hold-up of solvent in garments after identical extraction conditions:

**Carbon tetrachloride and perchlorethylene**—no appreciable difference.

**Trichlorethylene**—slightly more recoverable by extraction.

**Filter:** Operation essentially same with any of the synthetic fluids; normal precoat and operating additions will work equally well with any of the three fluids under identical conditions.

A large item in solvent consumption is solvent left in discarded filter sludge, which accounts for approximately  $\frac{1}{3}$  of solvent consumed in one washer-cabinet-drier machine.

**Still:** Three physical properties of the solvents have to be taken into account as regards the still—specific heat, boiling point, latent heat of vaporization. All three add up to heat input required to distill the solvent. The three solvents have approximately the same specific heat of around .2, and approximately the same latent heat of vaporization. The main difference is in the boiling point: carbon tetrachloride, 169.7 degrees F.; trichlorethylene, 188.4 degrees F.; perchlorethylene, 250.2 degrees F.

**Carbon tetrachloride and trichlorethylene**—may be distilled at low steam pressures, usually not in excess of 10 pounds per square inch gauge pressure.

**Perchlorethylene**—will require approximately 50 pounds. In some machines this factor rules out perchlorethylene, since still coils or jackets will not stand the higher pressure, or area of coils is not large enough to have sufficient heat input for distillation of this fluid.

**Solvent Recovery:** Vapor pressure exerted by the various fluids is greatest single factor affecting solvent cost. Vapor pressure determines how much fluid is lost in the drycleaning operation, also amount of solvent that may be recovered from garments after extraction.

Evaporation rate (taking ether as having a rating of 100):

Carbon tetrachloride—33

Trichlorethylene—28

Perchlorethylene—9

(Continued on following page)

### Physical Properties of Synthetic Solvents

	Carbon Tetrachloride	Tri- chlorethylene	Per- chlorethylene
Chemical formula	C Cl <sub>4</sub>	C <sub>2</sub> H Cl <sub>3</sub>	C <sub>2</sub> Cl <sub>4</sub>
Boiling Point, °F.	169.7	188.4	250.2
Latent Heat of Vaporization at boiling point, B.t.u./lb.	84.2	103.0	90.0
Specific Heat, Liquid	0.205	0.225	0.205
Viscosity, Liquid (68° F.) cp.	0.969	0.58	0.88
Surface Tension (in air) dynes/cm.	25.4 (in nitrogen) at 77° F.	Approx. 29 at 86° F.	32.32 at 68° F.
Specific Gravity (20°/4° C.)	1.594	1.464	1.623
Pounds per gallon (68° F.)	13.30	12.30 (59° F.)	13.55
Vapor Pressure, mm. Hg. (68° F.)	91	58.5	14.2
Evaporation Rate (ether-100)	33	28	9
Flammability, Underwriters' Laboratories Rating	0	3	0

(Continued from preceding page)

**Solvent Costs:** Only true basis for comparison is solvent cost per pound of garments cleaned. It matters little what is paid for a drum of solvent, but it does matter how much cleaning a drum of solvent will do.

In one popular washer-cabinet-drier machine, losses were determined, by extensive laboratory and field tests, to be distributed as follows:

	Perchlor- ethylene	Carbon tetrachloride
Filter loss	6.0 lbs.	6.0 lbs.
Hold-up	13.1 lbs.	14.0 lbs.
Still residues	.4 lb.	.33 lb.
Evaporated loss	3.5 lbs.	9.87 lbs.
Total loss, solvent per 100 lbs. garments	23.0 lbs.	30.20 lbs.

Taking a base price of 13 cents per pound for perchlorethylene and 10.5 cents per pound for carbon tetrachloride, this represents a cleaning cost of 2.99 cents per pound for perchlorethylene as against 3.17 cents for carbon tetrachloride. A comparison of the figures cited above shows that while perchlorethylene costs \$1.73 a gallon and carbon tetrachloride only \$1.40, high evaporation rate of carbon tetrachloride partially offsets higher cost per gallon of perchlorethylene.

### How to Reduce Cleaning Costs

Hold-up of solvent in garments after extraction: Varies with efficiency of extractor, which is a function of the diameter of the extractor basket and speed of extractor. This factor is built into machine and cannot be varied.

Length of extraction time: Can be varied.

*Example:* Variation in amount of solvent left in clothes after extraction. Garments extracted were wool, extraction time seven minutes in all cases.

Machine No.	Diameter of basket	Extraction speed	Solvent hold-up %
1.	27"	900	12.5
2.	30"	860	12.5
3.	34"	810	13.5
4.	30"	750	14.5
5.	32"	640	16.0
6.	24"	550	22.0

Recovery of solvent left in garments after extraction in separate recovery-drier will reclaim 90 percent of hold-up solvent. Will reduce cleaning cost to nearly one cent a pound with perchlorethylene, most completely recoverable solvent.

Filter loss: Much of this loss may be recovered by back-washing the sludge and steam-stripping when perchlorethylene is used.

Evaporation losses in operation: Minimized by using perchlorethylene.

By carrying out each of these solvent-saving steps, the solvent cost of cleaning with perchlorethylene may be held to .75 cents to one cent per pound, as compared to 1.75 cents to 3.5 cents per pound for carbon tetrachloride, depending on efficiency of equipment and operations.

These studies of solvent costs have been limited to perchlorethylene and carbon tetrachloride, since these two solvents afford the greatest contrast.

Chief advantage of trichlorethylene: Lends itself to construction of lower-priced machine from low-cost materials of construction.

Trichlorethylene should only be used in machines especially designed for it as this solvent has a tendency to bleed fugitive cellulose acetate dyes when the temperature of the solvent exceeds 80 degrees F.

Source—E. I. du Pont de Nemours & Company, Electrochemicals Department

## Petroleum Solvents

Standards for petroleum distillates used in drycleaning cover physical and chemical properties, methods of testing, certification of quality.

### Standards for Stoddard Solvent

(Commercial Standard CS 3-40):

1. **Material:** Stoddard solvent shall be a petroleum distillate.
2. **Appearance:** It shall be clear and free from suspended matter and undissolved water.
3. **Color:** It shall be water-white or not darker than 21 by Saybolt chromometer.
4. **Odor:** Solvent shall be free from rancid and objectionable odors.
5. **Corrosive Properties:** Copper shall show not more than extremely slight discoloration when submerged in solvent for three hours at 122 degrees.
6. **Doctor Test:** Solvent should react negatively.
7. **Sulphuric Acid Absorption Test:** Not more than 5 percent of the solvent should be absorbed by CP sulphuric acid (93.2 percent).
8. **Flash Point:** Shall not be lower than 100 degrees.
9. **Distillation Range:** When a sample is distilled according to specifications, not less than 50 percent should be recovered when the thermometer reads 350 degrees F. and not less than 90 percent when the thermometer reads 375 degrees F. and the end point shall not be higher than 410 degrees F.
10. **Residue:** When a sample is distilled the residue shall not be more than 1.5 percent.
11. **Acidity:** Residue from distillation shall not show an acid reaction.

### Standards for 140 F Solvent

The 140 F solvent has been developed in an effort to produce a workable solvent that would have a flash point higher than that set for Stoddard solvent and would show a high degree of safety in regard to fire hazard.

The main specification required by the Underwriters' Laboratories for 140 F solvent is that the flash point be a minimum of 138.2 degrees F. According to the Underwriters' listings this type of solvent is placed in a class between paraffin oil and kerosene.

The Stoddard solvent specifications are concerned only with the solvent and do not require any designated type of equipment.

In the use of 140 F solvent, specifications have also been set up in respect to the type of equipment in which it should be used for maximum safety. In some cases the equipment approved has been tumblers and drying cabinets. Some complete drying units have been approved for the use of 140 F solvent.

Approved drycleaning systems together with particular listed drying cabinets or tumblers are suitable only for use with listed cleaning liquids classified with respect to fire hazard and complying with the following specifications:

1. **Flash Point** (closed cup): Not lower than 138.2 degrees F.

2. **Initial Boiling Point:** Not lower than 357.8 degrees F.
3. **Ignition Temperature:** Not lower than 453.3 degrees F.
4. **Lower Limit of Explosion Range:** Not less than .8 percent by volume in air at initial temperature of 302 degrees F.
5. **Spontaneous Heating:** The cleaning material shall not heat spontaneously.  
The color, odor, corrosion and doctor tests are the

same as those commonly used for Stoddard solvent.

Along with the use of approved systems, the installation should be set up in accordance with the standards of the National Board of Fire Underwriters for safeguarding drycleaning and dyeing plants. Authorized inspectors should be consulted before installation.

The use of either of these solvents is regulated by the state fire marshal's office and the regulations vary considerably from one state to another.

Source—Anderson-Prichard Oil Corporation

## Miscellaneous

### Pumps for Filter Circulation

Following chart shows pump size recommended for each size of filter and speed at which each should operate to produce intended flow rate

Filter Gallons Per Hour	Size of Suction & Discharge Pipes	R. P. M. Pump Pulley	Diameter Pump Pulley	Gallons Per Revolution
400	1"	450	4 3/4"	0.015
600	1"	650	4 3/4"	0.015
1000	1 1/4"	375	7"	0.044
1200	1 1/2"	230	10"	0.087
2000	2"	265	10"	0.125
3200	2"	235	12"	0.235
5000	2"	350	12"	0.23
8000	3"	250	24"	0.53

Source—Viking Pump Co.

### Capacities of Clarifying Tanks

To calculate the number of gallons in the cylinder of a clarifying tank use the following data:

$$\pi \times \text{radius}^2 \times \text{height} = \text{cubic inches in cylinder}$$

$$231 \text{ cubic inches} = 1 \text{ gallon}$$

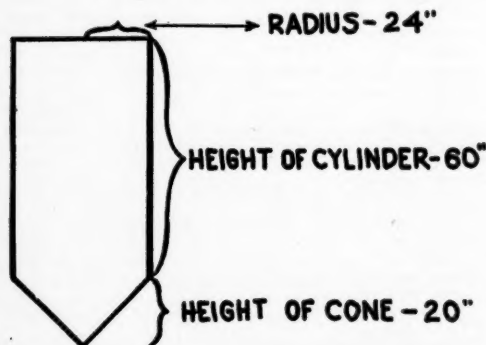
$$\text{Cubic inches} \div 231 = \text{gallons in cylinder}$$

Given a clarifying tank cylinder with a radius of 24 inches and a height of 60 inches:

$$\frac{3.1416 \times 24 \times 24 \times 60}{231} = 469.9 \text{ gallons}$$

To calculate the number of gallons in the cone of a clarifying tank use the following formula:

$$\frac{1/3\pi \times \text{radius}^2 \times \text{height}}{231} = \text{gallons in the cone}$$



To find the capacity of a clarifying tank cone with a radius of 24 inches and a height of 20 inches:

$$\frac{3.1416 \times 24 \times 24 \times 20}{3 \times 231} = 52.2 \text{ gallons}$$

### Capacities of Drycleaning Washers

It is impossible to quote precise washer loads to fit all types of equipment and diversified local conditions. The following capacities are average figures based on the recommendations of various washer manufacturers, detergent producers and drycleaning supply houses

Size	Wood	Metal
30 x 30	30	—
30 x 40	40	50
30 x 48	50	63
36 x 48	67	85
36 x 54	78	95
36 x 64	96	112
36 x 72	103	117
42 x 54	107	124
42 x 64	128	154
42 x 72	139	158
42 x 84	167	198
42 x 96	191	226
42 x 120	226	250

### Extractor Speeds

The revolutions per minute given in the table below are recommended by most manufacturers for extractors of various sizes

Diameter	R. P. M.
20"	1360
26"	1260
28"	1150
30"	1110
40"	900
48"	725
60"	610

### Recommended Drycleaning Washer Speeds

Drycleaning washers should travel between 160 and 180 linear feet per minute depending upon rib height and type of clothing being cleaned. Use the slower speeds for silks washed in high-ribbed machines. Most manufacturers recommend the following revolutions per minute as speeds for drycleaning washers of various diameters

Diameter	R. P. M.
30"	20-30
36"	17-19
42"	15-16

### Finishing Hints

#### Steam Line Size

Number of Presses	Size Steam Line
1-2	1/2 inch
3-4	3/4 inch
5-6	1 inch
6-10	1 1/4 inches
10-14	1 1/2 inches
14-25	2 inches

#### Maximum Temperatures for Various Fabrics

Fabric	Temperature
Rayon	280 to 300 deg. F.
Nylon	280 to 300 deg. F.
Silk	320 to 340 deg. F.
Wool	350 to 370 deg. F.
Cotton	400 to 420 deg. F.
Linen	450 to 500 deg. F.

## Spotting Suggestions

1. Keep tight corks or covers on all spotting agents. Only solvents safe for use on all fabrics should be kept conveniently at hand.

2. Remember that fabrics are most sensitive when wet. Don't rub a wet fabric with a chamois skin, turkish towel or brush. Use a tamping action. Scratching a wet fabric with the fingernail may cause irreparable damage.

3. After use, spotting brushes should be hung up to dry or left face down so the water drains from the bristles. Soaking swells fibers and splits the wood base.

4. Keep spotting brushes in shape. Uneven bristles cause inaccurate application and may hurt the fabric.

5. Gouging with the point of the spatula will lead to damage claims. Use with an easy tamping action.

6. On cellulose acetate fabrics always make a colorfastness test on an unexposed portion of the garment to discover whether certain dangerous spotting agents, such as alcohol, may be employed.

7. Use a dropper to apply spotting agents. Frequently, a few drops will do the job; when small amounts are used, removal of the agent is simplified.

8. Don't use hot soap solutions on fugitive or weak colors.

9. Before resorting to wetcleaning a garment consider handbrushing with dry solvent and soap.

10. When applying a digester to an albuminous stain make certain all the soap, alkali or acid is thoroughly rinsed out.

11. Remove metal trimmings, hooks, eyes, metallic buttons, pins or zippers before bleaching. Use stone, wood or earthenware containers for the bleach bath. Crowding garments in the tub is one of the major causes of uneven bleaching.

12. In employing a steam gun keep the jet moving at all times. If the gun is held perpendicular to the fabric, a hole will result. In removing food stains, flick at the spot, returning to it again and again.

13. Remove all spotting agents from the fabric. If they are dry, like paint removers, flush them out with a dry solvent. If they are wet, like ammonia or dilute acetic acid, flush them out with water. If they are soaps,

flush or rinse them out.

14. In drying garments circulation of air is more important than high temperatures.

15. Know when to quit. In cases where it is impossible to remove the stain without danger to the fabric, it is better to leave the spot than to ruin the garment.

Source—Spotting Manual

## Stains to Be Prespotted

Stains which are set by the heat encountered in drycleaning and pressing should be recognized readily by markers and spotters. The following stains should always be removed in prespotting.

**Blood:** A stain red to brown in color, both absorbed and built-up, usually found in the front of garments.

**Coca-Cola:** Entirely absorbed, may be very faint before going through the drycleaning process. In some cases it will spread over wide areas of silk and woolen garments.

**Cod Liver Oil:** Yellow in color, absorbed, often long and narrow following the filler threads. When oxidized will have a slight rancid odor.

**Coffee:** Color will vary from light brown to dark brown depending on the amount of cream in the coffee; entirely absorbed. Stain will tend to spread in wide blotches with irregular edges.

**Pigment Dyes:** A common stain on the seat and shoulders of a garment, usually picked up from leather upholstery.

**Perfume:** May be identified by odor and location on front of garments. In pronounced cases may leave a round or circular stain, light in center with the dissolved dyestuffs pushed out to the circumference in a dark, heavy ring.

**Road Oil, Tar, Asphalt:** Black, built-up stain with a rough, uneven surface and irregular edges. If fresh, has a distinctive odor.

**Syrup:** Sticky when wet, often identifiable by odor.

**Tea:** Similar to coffee, but more tenacious.

## Wage Incentive Data

### Production Standards

Pounds Per Man-Hour

	A	B	C	D	E	F	G	H	I	J
Marking	481.6	...	69.3	96.8	50.0	44.4	52.9	27.3	59.1	51.7
Cleaning	72.9	76.0	37.7	40.4	14.0	26.0	30.4	28.0	20.3	26.8
Finishing	30.2	34.5	15.5	14.0	10.0	9.8	11.0	9.7	8.1	6.0
Packing	291.4	75.4	100.3	42.1	37.6	42.0	27.0	37.3	41.6	37.0

Pieces Per Man-Hour

	A	B	C	D	E	F	G	H	I	J
Marking	385.3	...	60.2	67.6	41.4	39.4	40.2	23.1	57.7	49.6
Cleaning	58.4	54.8	32.8	28.2	11.6	23.1	23.1	23.4	19.9	25.6
Finishing	24.1	24.8	13.5	9.8	8.3	8.7	8.4	8.1	7.9	5.7
Packing	233.1	54.4	87.1	29.4	31.2	37.1	20.3	31.6	40.7	35.5

Definitive production standards applicable to any cleaning plant cannot be given for many reasons such as constant changes in methods and equipment, variations in quality standards, job doubling up, especially in small plants. Figures above are from 10 well-managed plants ranging from very low to very high production rates, \$5,000 to \$45,000 weekly volume, 39-cent to \$1.35 prices. Spotting is not in-

cluded because widest variation in standards is found in that department. High-quality operators should equal lowest output shown; mass-production plants should aim at the top

### Southern Service Production Standards

Production Job	Pieces Per Man-Hour
Pressing trousers	40
Pressing men's coats	35
Pressing long coats*	20
Finishing long coats by steam-air	40
Pressing skirts**	30
Marking	150
Assembling	125
Pressing mixed wools	20
Pressing silk dresses***	12

\*Men's and women's topcoats and lightweight fall and winter coats.

\*\*Without bodices.

\*\*\*Plain and fancy as they come.

Source—Claude Lucas

Standards of Southern Service Company of California prove that small plants can achieve high production. Prewar volume of this company's plants ranged from about \$800 to \$5,000 per week, average about \$1,500. Smallest in group had same standards as largest

## Fur Section

### Pre-Cleaning

All coats accepted for fur cleaning should be closely inspected for rips, tears, and fragile or worn pelts. Any torn or worn seams should be repaired at this point of the operation. Take out any loose linings to prevent the cleaning compound from working under them. Moth damage, shedding or cracked hairs, and fugitive dyes (such as are sometimes found on blue and platinum fox) must be reckoned with during this first operation.

After inspection, each coat should be beaten and shaken to remove loose dust and hair, moths, and larvae, as well as to fluff up the matted hair. This operation economizes on the cleaning compound because there is less loose dirt left in the coat for it to absorb, and also cuts down drumming time. Beating may be quickly accomplished in a vibrating chamber.

Sponge the lining of the garment with a cleaning solvent. This solvent must have properties that remove dirt, grease, and most ordinary spots. Pour one pint into a shallow pan and then apply to the lining and rub

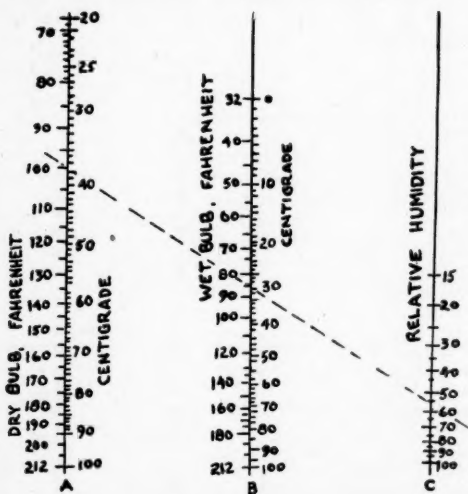
vigorously with a sponge or brush. Where you have a concentration of dirt, wet down generously with solvent and then use a brush to work this dirt loose. About three or four percent of all linings are badly soiled and will have to be removed and drycleaned.

### Drumming and Caging

Put one to five pounds of absorbent into the drum for each coat to be cleaned. Also add one pint of cleaning solvent and one-half pint of water base cleaning fluid for each coat. Absorbent materials and cleaning fluids should be completely mixed before placing coats in drum. Place coats in drum and revolve for approximately one-half hour. This time may vary, depending on the coat's fragility.

After drumming, garments are placed in the cage and tumbled an average of 45 minutes. After caging, the garments are placed in the suction chamber of the vibrating table to remove any excess absorbent material. The garment is then placed on a work table and

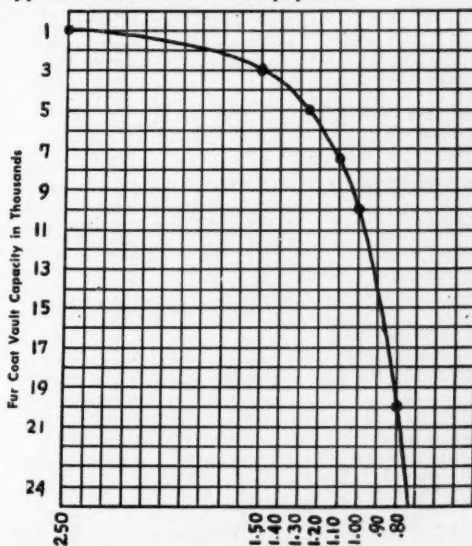
### Gauging Relative Humidity



The accompanying chart makes it possible to gauge relative humidity quickly. Run a straight line through the dry bulb temperature, column A, and the wet bulb temperature, column B. The relative humidity is given at the intersection with column C. Thus, if the dry bulb temperature is 100 degrees F. and the wet bulb temperature 85 degrees F., the dotted line drawn across the chart shows that the relative humidity, column C, is 54 percent.

The chart is based on a formula developed by the U. S. Bureau of Standards. Temperatures are given in both Fahrenheit and Centigrade.

### Approximate Cost of Vault Equipment



Cost Per Coat—Storage Vault Equipment

Source—Reliable Fur Storage Equipment Co.,  
Division of Reliable Machine Works, Inc.

### Capacities of Fumigation Cabinets

Inside Area (Cubic Feet)	Capacity (Number Fur Coats)
141	40
219	70
297	100
375	130
453	160
531	190
639	220
717	250



both the lining and fur are blown with compressed air. If cleaning material has worked under the lining, open the seams and blow it out, but to avoid excess labor, keep seam ripping to a minimum. Use a mechanical beater in conjunction with compressed air to remove lint from curly fur such as Persian Lamb.

### Fur Cleaning Classification

Fur	Drumming Time	Caging Time
<b>WATER RODENTS</b>		
Beaver	1 hour	1 hour
Nutria	1 hour	1 hour
Hudson Seal	30 to 45 minutes	25 to 30 minutes
Muskrat	30 to 40 minutes	15 to 20 minutes
<b>LAND RODENTS</b>		
Rabbit		
Dyed Coney		
Lapin	30 to 45 minutes	30 to 45 minutes
Northern Seal		
Beaverette		
Marmot		
<b>THE CAT FAMILY</b>		
Leopard		
Ocelot		
Leopard Cat	30 to 40 minutes	25 to 30 minutes
Lynx		
Civet Cat		
<b>THE DOG FAMILY</b>		
Fox		
Wolf	45 to 60 minutes	
Coyote	(bagged)	
Chinese Dog		
<b>THE BEAR FAMILY</b>		
Raccoon		
Bear	1 hour	1 hour
<b>THE WEASEL FAMILY</b>		
Mink	30 to 40 minutes	30 to 40 minutes
Kolinsky	30 to 40 minutes	30 to 40 minutes
Fitch	30 to 40 minutes	30 to 40 minutes
Fisher	30 to 40 minutes	30 to 40 minutes
Weasel	30 to 40 minutes	30 to 40 minutes
Otter	45 minutes	30 minutes
Skunk	45 minutes	30 minutes
<b>POUCHED ANIMALS</b>		
American Opossum	45 minutes	45 minutes
Australian Opossum		
<b>CURLY FURS</b>		
Russian Caracul		
Black Caracul		
Chekiang Caracul	20 to 30 minutes	5 to 10 minutes
Persian Lamb		
Krimmer Lamb		
Krimmer		
<b>HOOFED ANIMALS</b>		
Pony	35 to 45 minutes	35 to 45 minutes
Kidskin	20 to 30 minutes	10 minutes
<b>ALASKA SEAL</b>		
Safari Seal		
Black Seal	35 to 45 minutes	35 to 45 minutes
<b>DELICATE FURS</b>		
Galyak		
Chinchilla		
Mole		
Squirrel	Hand Clean	
Broadtail		
Barunduki		

Source—Walter Haertel Co.

### Glazing

Fur glazing is to fur cleaning what pressing is to drycleaning. A fur garment may be cleaned thoroughly, and yet will not look well until it has been glazed. Glazing may be accomplished either through the use of solutions or through mechanical means. Solutions used include potassium permanganate, Chinese elm bark soakings, alcohol, plain water, etc.

In recent years the use of steam irons, steam guns, and rotary irons have become popular for this purpose, and usually do an excellent job with minimum labor. The method used, of course, must be suited to the particular fur being glazed. The steam iron method is limited to certain types, such as muskrat, mink, and coney. Beaver or mouton types and curly furs should not be steamed. The rotary iron is a grooved, revolving, heated iron which, when properly applied to fur, will straighten out the hair and produce a high sheen and silkiness.

### Humidity in Storage Vaults

When there is a relative humidity of 65 percent or more in a storage vault, every article in the vault is in danger of being ruined by mildew. Mildew will grow in furs, rugs, and all cloth garments. Humidity of 52-53 percent is plenty for most situations. It is not generally known, but excessive humidity can spoil the fit of a fur coat, even if there is not sufficient humidity to cause mildew to grow. When humidity reaches a certain maximum, skins become soft and pliable and subject to stretching at the shoulders.

### Glazing Chart

Fur	Rotary Iron	Steam Iron
Beaver	●	
Caracul		
Civet Cat	●	●
Coney	●	●
Ermine		●
Fitch	●	●
Fox		●
Guanaco	●	
Lamb, Persian		
Leopard	●	
Mink	●	●
Mink, Jap	●	●
Mink, Side	●	●
Mouton	●	
Muskrat	●	●
Nutria	●	
Ocelot	●	
Opossum, American	●	●
Opossum, Australian	●	
Otter, Plucked	●	
Persian Paw		
Raccoon	●	●
Raccoon, Sheared	●	
Seal, Alaska	●	
Seal, Hair	●	
Seal, Hudson	●	
Seal, Northern	●	
Seal, Tropical		
Skunk	●	●
Squirrel	●	●
Wolf	●	●
Wolverine	●	●

Source—Walter Haertel Co.

# Break-even Charts

The combination of increasing costs, increasing competition, and decreasing profits has focused attention on the need for controls of costs and profits in laundry accounting procedure. Break-even charts provide a means of visualizing the effect of changes of volume or prices, and use of this excellent management tool has been endorsed by firms specializing in this type of work.\*

Once you have accumulated certain basic information on your plant, it is not difficult to construct your own break-even chart. You must know:

1. Physical capacity of your plant in pounds, bundles, or percentage of capacity.
2. Potential sales income at capacity operation.
3. Amount of fixed costs (costs which do not fluctuate with volume such as rent, insurance, depreciation, taxes, executive, supervisors' and office salaries, etc.).
4. The ratio of variable costs (costs which vary according to the volume being processed) to sales income, expressed as a percentage. The services of a professional accountant may be helpful in deciding which costs are variable and which are fixed.

Chart No. 1 below is a break-even chart of a typical laundry. The chart was prepared as follows. It was figured that the plant was operating at 80 percent of capacity, and its weekly sales were running at \$4,000 per week. Therefore, if the plant were to be operated at capacity, sales would run \$5,000 per week. Fixed costs were figured at \$1,250 per week, and variable costs were calculated at 60 percent of weekly sales.

A square was laid out on cross-section paper with ten spaces across the bottom to represent capacity of zero to 100 percent, and with ten spaces running up the left side of the square representing weekly dollar sales from zero to \$5,000. Vertical and horizontal lines were drawn from the space marks to form a graph.

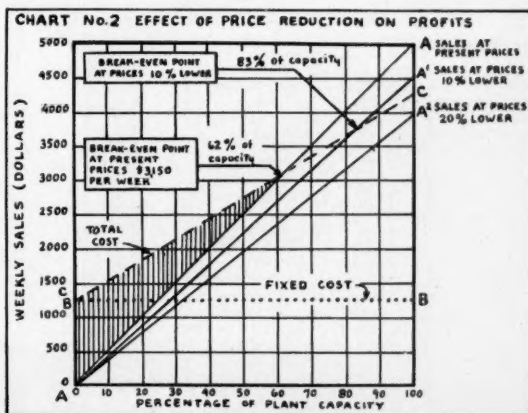
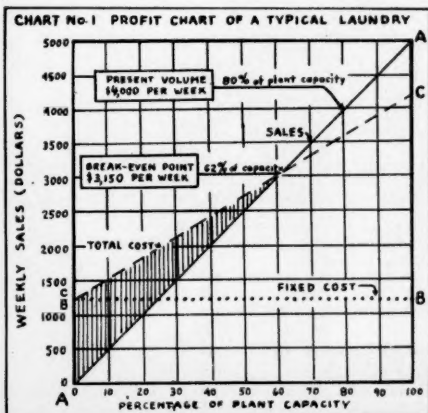
The first line drawn was A—A, representing total sales. The line was drawn diagonally across the graph so that any given amount of production could be trans-

lated into sales at the intersection of the vertical and horizontal lines. Then line B—B was drawn straight across the graph at a point indicating \$1,250 of fixed costs. Fixed costs would remain constant, of course, regardless of what the volume of production or sales happened to be.

The next line to be plotted was that representing total cost, which is indicated on Chart No. 1 by line C—C. At zero production, the plant still has to pay its fixed costs, \$1,250. Therefore, a line indicating total cost would have to start at this point. As variable costs amounted, in this case, to 60 percent of sales, they would total \$3,000 at 100 percent capacity or at \$5,000 weekly sales. Accordingly, at 100 percent capacity, total cost amounted to \$3,000 (variable costs) plus \$1,250 (fixed costs), or \$4,250. A point equivalent to this total was, therefore, marked on the 100 percent of capacity line. The total cost line, C—C, was then drawn to connect this point and the \$1,250 mark on the zero capacity line.

As the break-even point must be the point where total costs are matched by sales income, the intersection of line A—A (sales) and line C—C (total cost) is the break-even point for this plant. This point was found to be \$3,150 per week. The shaded area below the break-even point indicates loss, and the space between the cost and sales lines above the break-even point represents profit—increasing as plant capacity is approached. Present sales of the plant were stated as \$4,000, so its profit was \$350 per week.

Chart 2 indicates the effects of 10 and 20 percent price reductions. Total costs (except for a slight reduction in routemen's commissions) remain constant. Line A—A' represents a drop of 10 percent in sales income, and indicates that physical volume must be increased from 62 percent to 83 percent, and sales must be increased from \$3,150 to \$3,735 in order to break even. If prices were lowered 20 percent, income would be below the total cost line at plant capacity and the plant could not possibly break even unless capacity were increased or costs substantially reduced.



\* This article is based on charts and information provided through courtesy of John Carruthers & Co., Boston, Mass.

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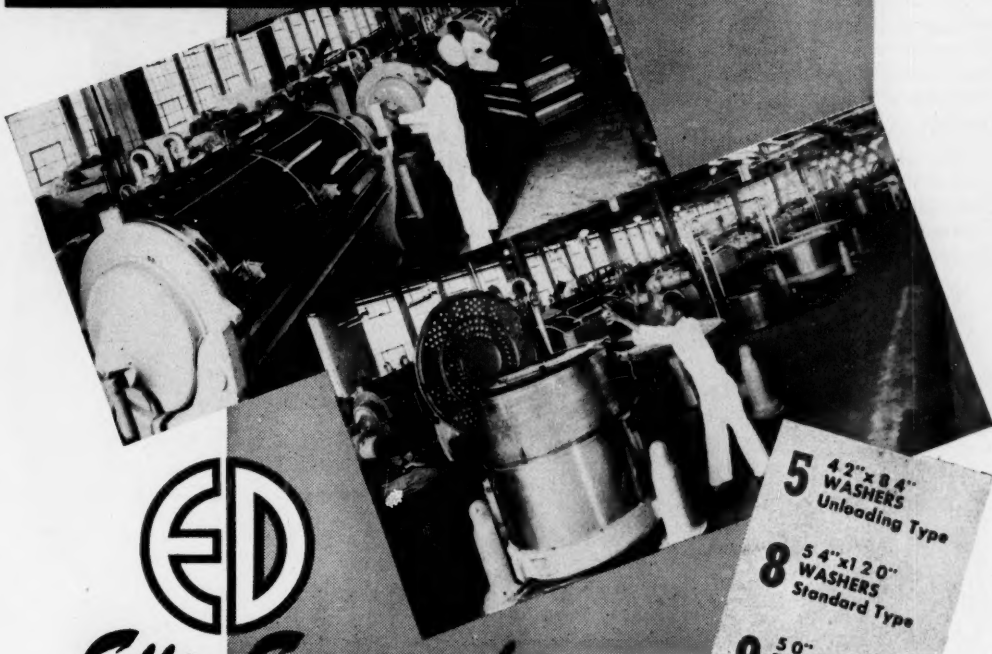
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TWO GREAT VALVE-IN-HEAD ENGINES—the 105-h.p. Loadmaster or the 92-h.p. Thriftmaster—to give you greater power per gallon, lower cost per load • POWER-JET CARBURETOR—for smooth, quick acceleration response • DIAPHRAGM SPRING CLUTCH—for easy-action engagement • SYNCHRO-MESH TRANSMISSIONS—for fast, smooth shifting • HYPOID REAR AXLES—for dependability and long life • NEW TORQUE-ACTION BRAKES—for light-duty models • PROVED DEPENDABLE DOUBLE-ARTICULATED BRAKES—for medium-duty models • NEW TWIN-ACTION REAR BRAKES—for heavy-duty models • NEW DUAL-SHOE PARKING BRAKE—for greater holding ability on heavy-duty models • NEW CAB SEATS—for complete riding comfort • NEW VENTIPANES—for improved cab ventilation • WIDE-BASE WHEELS—for increased tire mileage • BALL-TYPE STEERING—for easier handling • UNIT-DESIGNED BODIES—for greater load protection • ADVANCE-DESIGN STYLING—for increased comfort and modern appearance.

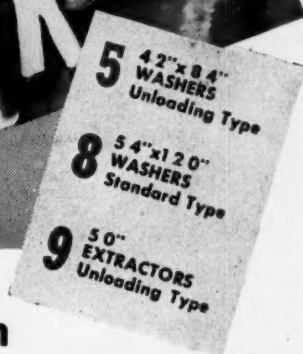




# LARGEST LAUNDRY *in Dixie*



## *Ellis Equipped* for High Efficiency Operation



THE Memphis Steam Laundry . . . the finest and largest south of the Mason-Dixon Line . . . have replaced their former equipment with the latest ELLIS Air-Controlled All-Metal Washers and Extractors . . . standard and unloading types.

This investment is already paying big dividends in man-hours saved, better quality work, and increased production, which is now running above 325,000 pounds a week on single shifts. The savings in maintenance and repairs alone are paying for the machines in a short time.

Since this installation was made, the demand for Memphis' Quality laundry work has been growing, and additional ELLIS units are now on order.

*The* **ELLIS**  **DRIER Co.**  
2444 NORTH CRAWFORD AVENUE

**HEAVY DUTY CHICAGO ONE GRADE**

Mr. George W. Krieh, Pacific Coast Representative of The Ellis Drier Co., Pasadena, Cal.

## MAKE YOUR FINISH THE APPLE OF HER EYE!

"It's a Pippin!" will be the unanimous verdict of housewives if you give them that perfect Red Edge Knitted Padding finish. Every piece of Flatwork and body clothes will be the pride of your laundry and the apple of her eye! Red Edge Padding gives the high type finish needed in today's tough competitive laundry market.

The unique *Knitted* construction of Red Edge inhales steam and uniformly cradles work, keeping pressures ideal for perfect finishing. It's right for economy too, giving long hours of great service on flatwork ironers and presses. Use Red Edge Knitted Padding and keep on polishing that juicy profit apple!



# RED EDGE Knitted Padding

# "GANG BUSTER"



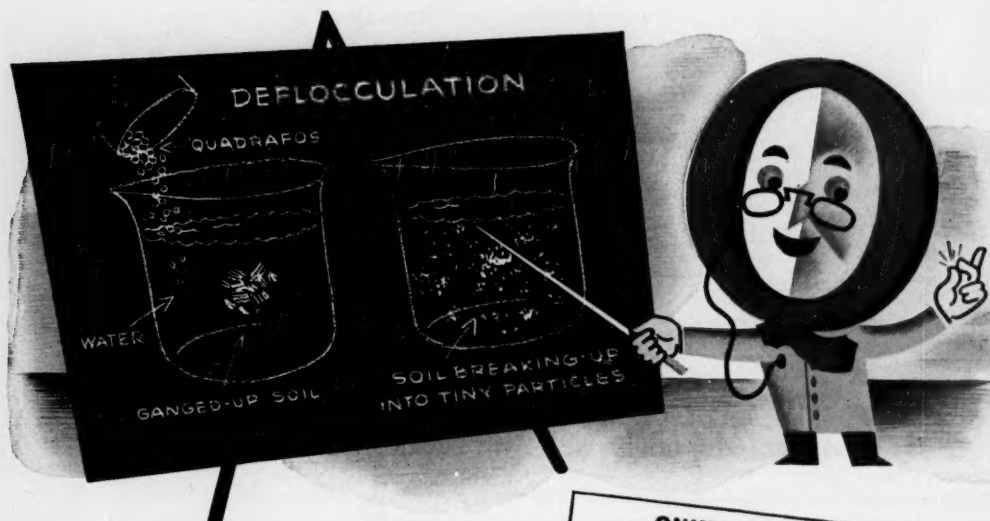
**QUADRAFOS\* helps break up stubborn soil accumulations in a hurry.**

When ganged-up soil particles cause you to dig deep into your soap and alkali barrels to get peak washing power into your suds break, it's time to call on QUADRAFOS for help.

Because of its powerful deflocculating and

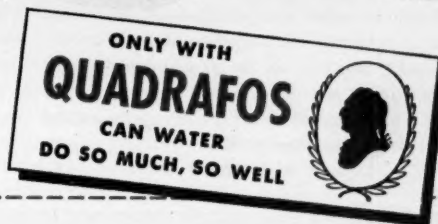
dispersing actions, QUADRAFOS gets under and between the ganged-up particles, lifts them off surfaces, separates them and holds them in perfect suspension. Such complete soil removal not only produces cleaner, fresher-smelling bundles but also reduces soap, bleach and bluing requirements by handsome figures.

For proof that QUADRAFOS can help you boost quality and profits, write for all the facts — using the coupon below.



softens water without precipitation...deflocculates  
...redissolves precipitates...promotes free rinsing

\*Reg. U. S. Pat. Off.



**RUMFORD CHEMICAL WORKS**  
21 Newman Avenue  
Rumford 16, Rhode Island

Please send me more information about QUADRAFOS in the laundry. I'm particularly interested in:

- ☐ Preventing insoluble soap precipitates
- ☐ Restoring softness to "boardy" fabrics
- ☐ Improving whiteness
- ☐ Better sudsing with less soap
- ☐ Saving water and time on rinsing
- ☐ Reducing bleach
- ☐ Greater absorbency for diaper work

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Firm.....  
Address.....  
City..... Zone..... State.....

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL



**Relax, Charlie, thousands of other laundries are getting  
the same wonderful results with Swift's Soaps that you are!**

Charlie is still in the first flush of discovering what so many laundrymen already know. Namely, that you can always find just the right soap for all your needs in the complete line of Swift's Soaps. And remember, it pays to use the *right* soap—and plenty of it.

To develop even better products for your purpose, Swift's Technical Laundry Service Division is working daily on soap and laundry problems. This means that Swift Soap products always have the quality and effectiveness to help you get better results in your laundry.

**Call SWIFT first**  
*for soaps*

Listed below are some of Swift's fine soaps. You can order any one of them from Swift's distribution points coast to coast and expect immediate delivery.

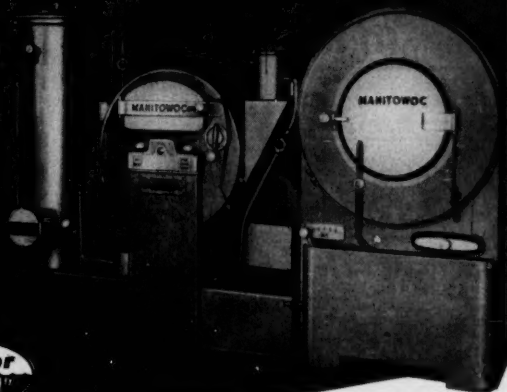
*White Ribbon Chips & Powder*  
*Guaranteed Laundry Powder*  
*Formula S Powder*  
*Break-O Powder*  
*Wool Soap Flakes & Powder*  
*Glory Chips*

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# Manitowoc Dual Drum Design

**makes  
"On-The-Premises"  
cleaning  
Practical  
and  
Profitable**

- MORE CAPACITY
- BETTER QUALITY
- FASTER SERVICE
- HIGHER PROFIT



**"Wash-Extract" and "Tumble" at the Same Time**

**If You Are Still Using a Single Drum Machine You Can Double Your Capacity With This MANITOWOC TUMBLER**



**\$1250  
F.O.B.**

Scores of plants still using single drum closed units are adding Manitowoc Recovery Tumblers to double their capacity. You, too, will be way ahead if you add this Recovery Tumbler to your present single drum synthetic solvent unit. Enables you to tumble and deodorize while you are washing, thereby doubling your capacity. Highly efficient solvent recovery. Comes complete, ready for installation.

Manitowoc dual drum design enables you to turn out up to twice the cleaning volume you get from self contained single drum cleaning units. With a Manitowoc you *need not lose* the wash-extract time while garments are being tumbled — because while you are washing and extracting in one drum, another load is being tumbled in the second drum. Operating on 15-20 minute cycles with 35 lb. loads, a Manitowoc will handle 3-4 complete cycles — wash, extract, tumble, per hour, while a single drum unit is handling only 1½-2 cycles.

In addition, you get better quality cleaning because each drum of a Manitowoc is designed for a specific purpose, instead of a compromise single drum which must wash, extract and tumble.

You get all these operating advantages plus a machine as well built as any in the industry at the lowest cost per pound of capacity in the industry. The Manitowoc Perchlor is the safest, soundest investment you can possibly make.

**SEND FOR THIS NEW FREE CATALOG**

Just off the press — Gives complete details on the new Perchlor 600 with continuous distillation. Ask for bulletin 516.



**Manitowoc**  
*Synthetic*  
**PERCHLOR DRY CLEANING UNIT**

MANUFACTURING DIVISION of  
MANITOWOC SHIPBUILDING CO.  
513 - 16th St.,  
Manitowoc, Wisconsin



**YOU GET MORE  
THAN THE PRODUCT**

**YOU GET THE  
KNOW-HOW TOO**

*when you order...*

**Cowles**

**LAUNDRY PRODUCTS and SERVICE**

**ESCOLITE**—Highly colloidal alkaline detergent and builder. Economical on white work. Safe on colors. 350 lb. drums.

**ESCOLLOID**—Colloidal builder for heavy soil. High pH, high  $\text{Na}_2\text{O}$ . Long-mileage soap builder. Powerful break detergent. 350 lb. drums.

**ESCOL 77**—Power-plus detergent. Extra alkalinity and solvent action for greasy linen supply and heavily soiled white work. 350 lb. drums.

**DEFLOC**—New—highly alkaline—power-packed complete laundry detergent. High pH colloidal alkali with high titer soap. For the break and for the suds. 100 lb. bags and 250 lb. drums.

**DESOIL**—Complete laundry detergent for light and medium soil. Colloidal alkali with soap. 100 lb. bags and 250 lb. drums.

**SOILSORB**—Alkaline absorbent detergent for picking up greasy soil. Also valuable for "policing" fugitive colors. 100 lb. bags and 325 lb. drums.

**ESCOMO BLUE**—Three shades—"A" (Green-Blue), "R" (Red-Blue), "NE" (Blue). Packages (8-2 oz. bottles), Quarts, Gallons.

**ESCOFOS**—Triple-action soap regenerator. Strips all three—lime soap, acid soap, re-deposited soil. 50 lb. and 250 lb. drums.

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**OLIVESCO**—Mildly alkaline low-titer built soap. For silks, woolens, colors. 250 lb. drums.

**ESCO SAVON\***—High-titer built soap for white work. 250 lb. drums.

\*EAST OF ROCKIES ONLY



BY AMERICAN  
INSTITUTE OF LAUNDERING

TESTS PROVE:

**Permafiber Marking Tag Stock**  
**Completely Durable, Color-Fast**

Here's important news for every laundry and dry cleaning operator!

**Permafiber** now bears the CERTIFIED Seal of the industry's top testing authority...further proof of superior performance under all laundering and dry cleaning conditions.

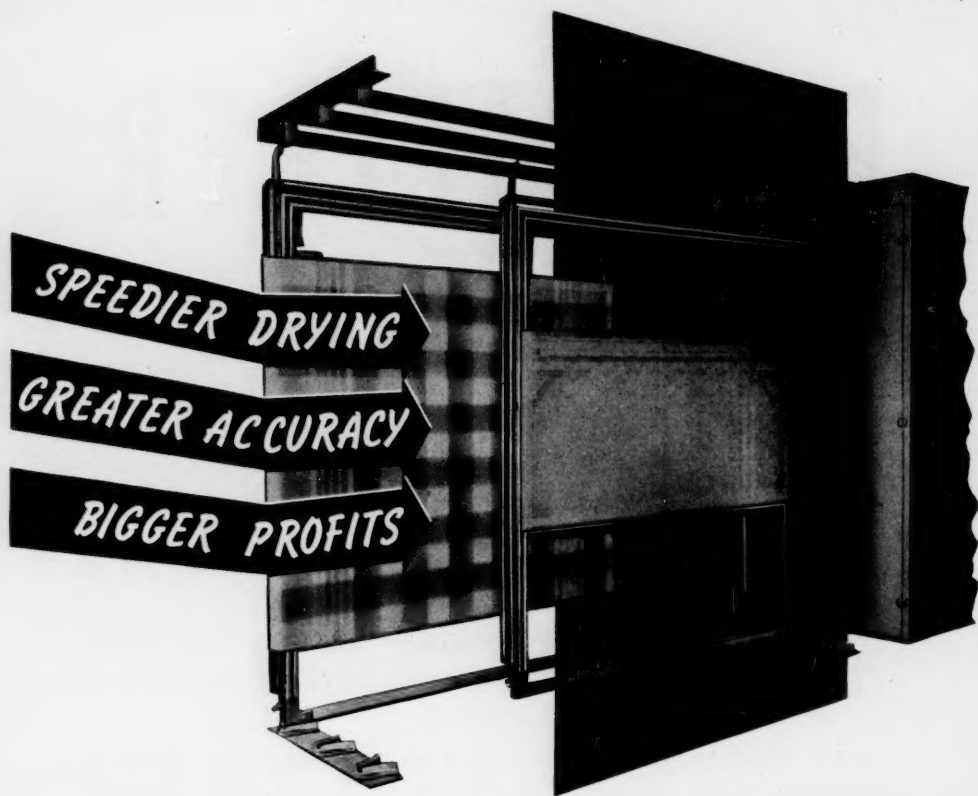
Test **Permafiber** marking tags in your plant — today! See for yourself how **Permafiber** can't shred in processing . . . holds numbers sharp and clear . . . comes through flat and flexible.

And for ECONOMY, **Permafiber** can't be beat. **Permafiber** costs less, saves marking and sorting time, eliminates garment loss.

Remember...always specify **Permafiber** when you order.

*Write for name of nearest dealer and samples!*

*Permafiber Corporation* 450 SEVENTH AVENUE • NEW YORK 1



## WITH **HOPKINS SQUAREWAY** *Curtain and Blanket* **STRETCHER**

SQUAREWAY Stretchers provide faster drying, increased volume, superior quality work . . . all of which means to you, bigger and better profits from handling blankets, bedspreads, banquet cloths, portieres, yardage materials and all size curtains.

Hopkins SQUAREWAY Stretchers are easy to operate. Only two split-second adjustments are needed. A simple twist of the wheel, a pinch of the finger-tip control handle, and a pair of curtains are perfectly set. When dry, a slight touch on the release lever deliv-

**HOPKINS**  
**"BLANKETMASTER"**  
Blanket Washing  
Machine elimi-  
nates shrinkage!  
Write for  
bulletin.

ers curtains perfectly matched for size. One operator handles the whole job!

Proper tension is always maintained because Hopkins Stretchers are built to stretch the "square way". Precision controls make perfect right angle adjustments.

SQUAREWAY Stretchers are supplied in combination with DRYMASTER Drying Cabinets as shown above, or on casters without cabinets.

For complete information and name of nearest jobber, write

**HOPKINS EQUIPMENT COMPANY**  
**HATFIELD, PENNA.**

GARMENT HANGERS • GARMENT FINISHERS •

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A "MASTER"  
*Alfred Hopkins*  
ENGINEERED PRODUCT



# SODIUM ORTHOSILICATE



**CHEMICALS**

INDISPENSABLE TO INDUSTRY  
AND AGRICULTURE

# BIG REWARD *in Amazing*

with

**Complete-Sweep**

**Mechanization of Flatwork Ironing**

Leading laundryowners throughout the country are cutting flatwork ironing costs by *MECHANIZATION*. Plants of all sizes have found flatwork mechanization is the "stitch in time" to combat rising costs. Holland Laundry, Philadelphia, made an all-out attack on their flatwork ironing costs with one *complete-sweep* mechanization.

Holland Laundry was operating three 8-Roll SYLON Ironers in the conventional way, for fully identified flatwork. Two of the ironers were used for large pieces, the other for small. Then, with an American representative, they thoroughly planned their mechanization attack. The picture story on the opposite page tells how Holland Laundry *completely mechanized* its flatwork ironing department. Below are the results.

## *Results* OF COMPLETE-SWEEP MECHANIZATION —

Holland Laundry reduced flatwork ironing costs **54 cents per 100 lbs.\*** ... despite fact that operators were given a 5% pay increase.

\* Holland Laundry sells family service on Philadelphia piece price plan.



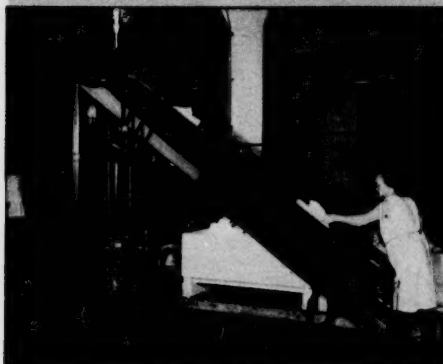
The  
**AMERICAN**  
LAUNDRY MACHINERY CO.

CINCINNATI 12, OHIO

If you have a one, two or three-ironer plant, you can make savings comparable to those realized by Holland Laundry. Your American representative will be happy to talk over flatwork ironing mechanization for your plant. Contact him today . . . **FOR MORE PROFITABLE OPERATION THROUGH AMERICAN'S ADVANCED ENGINEERING.**



# Savings!



- 1** A 48x84" Continuous Conditioning Tumbler was installed to precondition large flatwork and colored table linen for two 8-Roll SYLON Ironers. An inclined conveyor feeds work to Tumbler in a continuous flow.



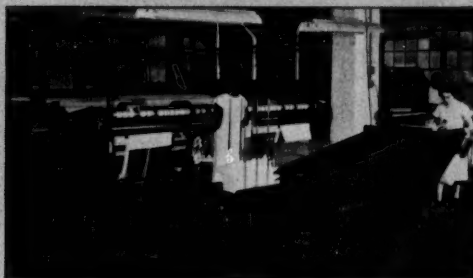
- 2** Conditioned work drops from Tumbler onto a Discharge Conveyor. Distributing Operator (left) places conditioned pieces on Conveyors which take them to 2 Sager Spreader operators (one shown right foreground). Sager "A" Spreader at each ironer delivers pieces directly to feeders at ironers, fully opened up for fast, easy feeding.



- 3** TRUMATIC Folders at delivery ends of two large-piece ironers automatically fold each piece twice lengthwise, with only one receiving operator needed at each ironer to crossfold, stack and weigh ironed work.



- 4** A 34x72" Continuous Conditioning Tumbler was installed at feed end of 8-Roll SYLON ironer used for small flatwork and white table linen. Conditioned pieces are discharged onto inclined Conveyor which carries them to another Conveyor traveling at convenient feed height in front of ironer. Pieces are fed directly from Conveyor, which keeps feeders supplied with continuous flow of properly conditioned work.



- 5** A STACKRITE Stacker, at delivery end of small-piece ironer, mechanically stacks work for fast folding. A FOLDMASTER Folder (right foreground) automatically folds 90% of the towels and pillow cases.



## FROM THE GREAT LAKES TO THE ROCKIES

### There's a THOMPSON-HAYWARD Warehouse Near You

Fast service — dependable service — that's one of the extra values Thompson-Hayward's widespread facilities offer you. And with that service goes the definite assurance that every Thompson-Hayward laundry product has been tried, tested and proved — to make sure it will give you the utmost in quality and value.

**For More Business Tomorrow Put Thompson-Hayward Detergents To Work In Your Washroom Today**



#### Wash-Tex

Eliminates use of soap on greasy rags and overalls. Highly effective as a break powder on colored and white work.



#### Hy-SOL Medium pH



#### Ultra-SOL High pH



#### NU-SOL Mild pH



#### DIS-PER-SOL

Designed to give maximum soil removal on the break.



#### P. M. Soap

A complete soap for use dry on the wheel.

These quality soap builders supply all the necessary properties of a complete detergent. They assure quick wetting and colloidal action, emulsify mineral oils, saponify fats and vegetable oils, neutralize acid dirt and prevent redeposition of soil.

# THOMPSON-HAYWARD

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# FINE DRYCLEANING...

...you find a  
**PROSPERITY**  
FULLY-AUTOMATIC UNIT!

- Fully Automatic Operation
  - Batch Distillation
  - Open Pocket Reverse-Action Cylinder
- washes every part of every garment in shortest possible cycle... no tangling or twisting of garments.*

**PROSPERITY FULLY-AUTOMATIC  
DRYCLEANING UNIT Model 6-A**

**The PROSPERITY**

Trademark Prosperity  
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Main Office and Factory, Syosset, N. Y.

FOR THE LAUNDRY AND DRY CLEANING PLANTS

**Company Inc.**

Export Sales Made by  
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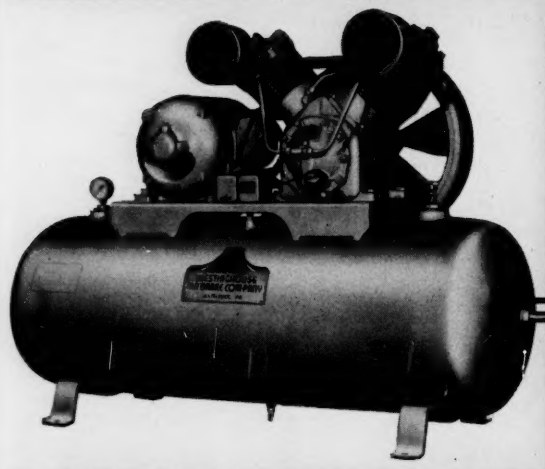


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# Westinghouse

# "Y"



Here's a husky, two fisted compressor with two working cylinders to give you double the air at every stroke and safeguard the all-important dependability of supply. An exclusive Westinghouse protective device prevents loading if the oil level is too low. This forewarning calls immediate attention to the oversight, which can be corrected before damage results.

Other modern features include automatic pressure control, pressure lubrication, multiple "V" belt drive—plus the important protective features listed at right. Displacements from 9.68 to 75 cfm; hp from 1½ to 10. Gas engine drives available.

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Only the Westinghouse "Y" gives you ALL THREE

**Low Oil Level Protection**—No Oil—No Air, bans wear and repair.

**Thermal Overload Protection**—Standard, at no extra cost, on the "Y".

**Starting Unloader**—Compressor remains unloaded till speed and oil flow are normal.

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**THE GREATEST LABOR SAVING  
MACHINES—** *from Maine to Hawaii*  
**8 to 48 LABOR HOURS SAVED—**  
*in the normal 8 hour day.*  
**THE SAGER "A" AND "B" SPREADERS**

*for large flatwork*



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*Chemicals you live by*

**DIAMOND..**



*It's a Hit!*

Try DIAMOND Orthosilicate to get top quality results—the kind that build your reputation and bring in bigger bundles, with those hard to get pieces.

**DIAMOND..** is the only Orthosilicate that is free flowing—

flaked,  
dustless,  
safe to handle.

**DIAMOND..** dissolves READILY in hot or cold water—

FASTER than other orthosilicates—  
COMPLETELY without waste.

#### HERE'S THE TEST

Try DIAMOND Orthosilicate—just for a month. Make a note of how much less you need because every bit of DIAMOND's flaked orthosilicate is used. Note also, how your employees appreciate the ease with which DIAMOND Orthosilicate can be handled. In one month you can see for yourself how DIAMOND Orthosilicate really is different.



CALL A DIAMOND Office or Laundry distributor today for details and demonstration. Or call the nearest DIAMOND sales office.

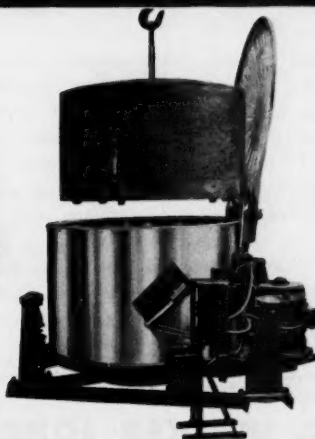
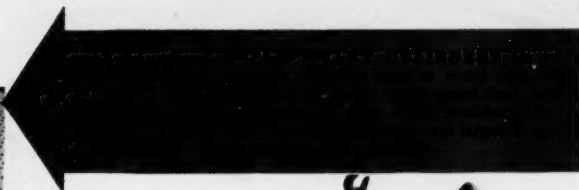
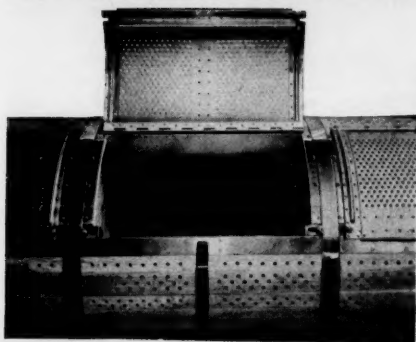
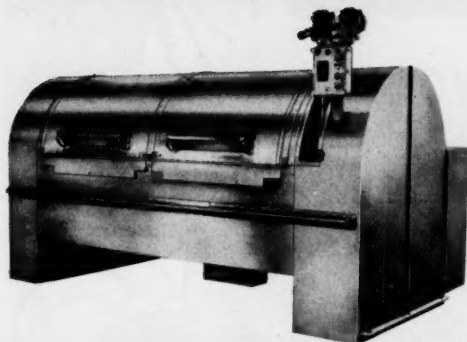
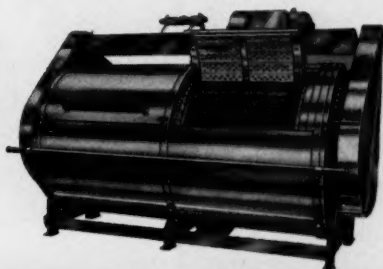
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**DIAMOND LAUNDRY DETERGENTS**

DIAMOND ALKALI COMPANY... CLEVELAND 14, OHIO



**ENGINEERED AND MANUFACTURED BY CUMMINGS-LANDAU**



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Shirt presses, body presses, bosom presses, collar and cuff units, dry cleaners' presses, you can cover all sizes and types of buck with the new "Jomac 54" press cloth.

A full 54 inches wide, the new "Jomac 54" allows you to cut your entire requirements without piecing or stitching, and with practically no loss.

The new "Jomac 54" is the same famous scorch-resistant laundry cloth that has been used for years in all types of cleaning and

laundry establishments throughout the nation.

Jomac is a loop-finished fabric that outwears flannel better than 3 to 1. It's absorbent. It's resilient and does not crush down. It's uniformly porous and gives a good vacuum effect.

For economical, trouble-free pressing, try this famous fabric in the new width. If you've been using flannel, keep track of the extra days of service you get. *If Jomac does not outwear flannel, your jobber will credit you for the full roll.*

**C. WALKER JONES CO., PHILADELPHIA 38, PA.**

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Ideal  
for  
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No. 1 Economy  
Larger Sizes Available



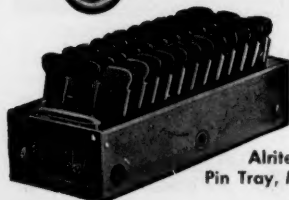
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Pin Tray, Many Sizes



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2" Marking Pins



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Alrite  
Pin Tray, Many Sizes



*Saves Every Time*



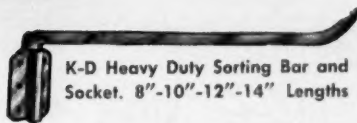
THE KEYES-DAVIS COMPANY  
Superior Service Since 1904  
BATTLE CREEK, MICHIGAN



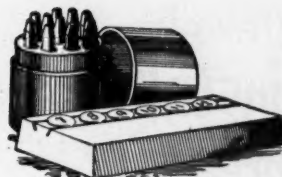
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For  
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K-D Heavy Duty Sorting Bar and  
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K-D Numbering Outfits  
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## LAUNDRY Executives Say—



My customers liked the change in their laundry when we installed Refinite — and told their friends.



We use 50% less soap and caustics since installing Refinite



Hard water? Brother, we had it until Refinite knocked it down to zero!



The cost of my Refinite softener was paid off by bigger profits the first year!



—and no more plumbing bills for cleaning out corroded pipes!



New Refinite #1 reconditioned my softener mineral for half of what new would cost.



When I need service I need it right NOW —



— same here, and Refinite gets their man on the job FAST!

Nearly One Half Century Solving Water Treatment Problems

# Refinite

WATER REFINING EQUIPMENT

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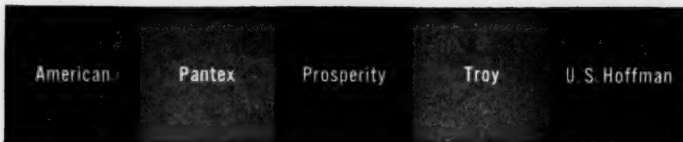
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Garment  
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makers  
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9 to 1

If your machine isn't among the 90% of all laundry and dry cleaning pressing machines already equipped with Presstite\*, the most popular of all flexible metal steam connectors, ask your jobber about it now. For older-style machines use Steamtite\* connectors, specially designed for presses originally fitted with swing joints. Write for Bulletin L-173 with selection chart. The American Brass Company, American Metal Hose Branch, Waterbury 20, Connecticut. In Canada: The Canadian Fairbanks-Morse Company, Ltd.

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\*Reg. U. S. Pat. Off.



**ANACONDA**  
Trade Name for Rubber Hose  
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wherever connectors must move... *American*

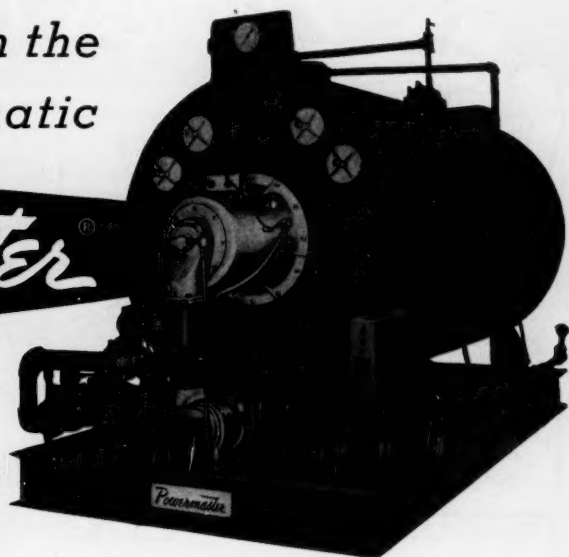
**FLEXIBLE METAL HOSE AND TUBING**

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now you can  
reduce  
steam costs  
with the  
automatic

*Powermaster*®



Model 3 Powermaster—15 to 500 H.P.; high or low pressure models for steam or hot water.

Exclusive burner design (patent applied for) is yours with the *Powermaster* steam generator. Compare this unit with others and you'll see why users are saving hundreds of dollars on fuel bills. Only the *Powermaster* gives you these 3 definite ways to reduce your costs for steam or hot water—

1. *Use less fuel* when boiler operates between 100% and 30% of capacity. Special burner gives you full modulation in a wide range between high and low fire.
2. *Save clean-up time* and money because complete combustion of fuel gives practically smokeless and carbon-free operation. Case histories show that the *Powermaster* needs cleaning less often than other self-contained units.
3. *Change from oil to gas* (or gas to oil) in just a few minutes. Take advantage of low fuel rates, enjoy freedom from worry about fuel shortages.

**Write for this catalog**

that gives you the entire story of the *Powermaster* steam generator. Just ask for Catalog 1218 and we'll put one in the mail for you.



only the  
*Powermaster*®  
gives you  
all 3  
advantages

**ORR & SEMBOWER, INC.,** Established 1885  
890 Morgantown Road, Reading, Pennsylvania

# Just what the Ladies Ordered!

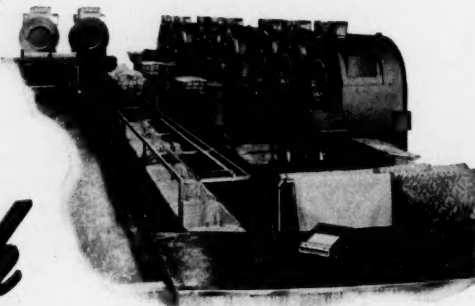


Me fuss and wait around at the self-service? Not any more! I'm for MonoWash attended service.



We'd been considering our own home washer — that's out since I've found MonoWash fluff-fold service.

Never used a regular laundry before. But this MonoWash really is fast, thrifty.



## HOFFMAN'S *MonoWash* UNIT LAUNDRY

*for same day shopping center service!*

The reports are coming in! Homemakers endorse our claims for the MonoWash Unit Laundry with bundle after bundle of family wash. These are bundles formerly hauled to the self-service — or done in the home washer.

Enterprising plant owners find that MonoWash attracts shirt work, boosts drycleaning volume. Best of all, no dollar invested in any other type of laundry operation yields as high a profit as MonoWash does!



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# and just what the Industry Wants!



Fast, economical  
production of damp-  
dry and fluff-fold  
work — today's most  
popular, wanted services



Compact, low-cost  
installation, ready-  
made for Main St.  
merchandising of  
modern laundry service

## MonoWash

### PROVIDES EVERYTHING

### YOU NEED FOR A COMPLETE PACKAGE LAUNDRY

Highest profit per dollar  
of investment ...  
minimum labor ...  
dependable service  
... competitive prices —  
big volume



Your MonoWash operation requires as little as 1,000 square feet of floor space. Washers are 25-pound, open-end reversing models, mounted in units of three on a common steel base (to distribute floor load and permit installation on any type of floor). Drain trough at front of unit serves all three machines — saves handling, avoids water spillage. Balances operation with one 20-inch extractor to each three-washer unit. And end-loading, gas-fired

tumblers for speed drying of fluff-fold work.

Completely piped and wired — ready for hook-up of electric, gas, water and sewer connections at your store. Water heater and storage tanks provided, in sizes to balance with your choice of washer units. Plus accessories, and Hoffman assistance in layout planning and training of employees in all operations.

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Complete Details on Your MonoWash Profit Opportunity



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## Fuel Savings

—\$59.62 fuel savings  
each month at Wisconsin  
Cleaners, Milwaukee, Wis.

## More Output

—15% more output at  
Sun-Ray Cleaners, Chicago

## Faster Heat-Up

—15% reduction in heat-up  
time at Utopia Cleaners &  
Dyers, Birmingham, Ala.

## Labor Savings

—25% less labor needed at  
National Cleaners & Dyers,  
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to you

YOU'RE likely to get a good share of them all, as these plants did, by switching to Armstrong Unit Trapping. This means installing an individual Armstrong Steam Trap on each steam-consuming unit, including each separate chamber, chest or cylinder of every machine. Only then can you achieve the machine's maximum work output.

Armstrongs keep dry steam pouring heat where it can be used most efficiently. How? By getting rid of heat insulating air and draining condensate as fast as it forms. Other advantages? An unparalleled record for low maintenance and long life. Credit this fact: the mechanisms in Armstrong Traps for your service are identical in design, workmanship and materials to those used in Armstrong Traps for power plant service at 1500 lb. pressure and 900°F! Your nearby Armstrong Representative can advise and supply you. Give him a call, today. Armstrong Machine Works, 832 Maple Street, Three Rivers, Michigan



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the whole profitable story of  
proper trapping. Ask for  
Bulletin 193.



An example of Armstrong Unit Trapping on a battery of presses. These Armstrongs are No. 880's — they have the strainer built right in.

SEE US AT THE LAUNDRY SHOW  
STEVENS HOTEL, CHICAGO  
OCTOBER 19-21 BOOTH NO. 73

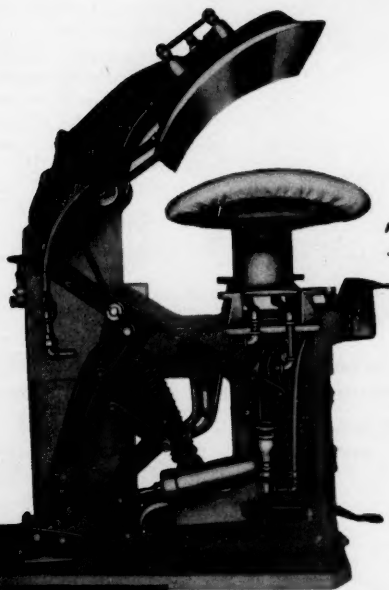
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**LOOK INSIDE** before you buy your next laundry air press and avoid the troublesome gadgets that cause you 85% of your laundry air press headaches.

Only Pantex can offer you a press with — no cams — no push-buttons — no packings — no TENSION BALANCE SPRINGS — no diaphragms and no multiple air cylinders and hoses.

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Equipment that  
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# JOHNSON BOILER FEED SYSTEM CUTS COAL CONSUMPTION BY 22%

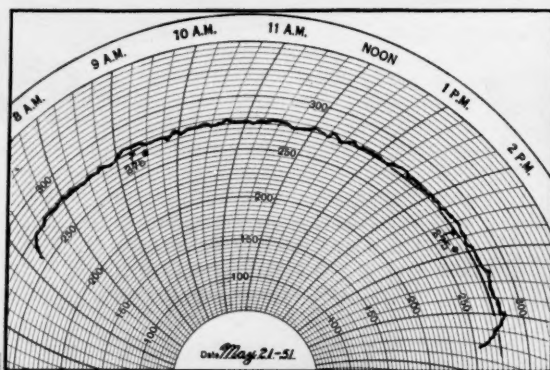
These facts are taken from an operation analysis furnished by a New York State laundry.\* They show how coal needs were cut from 4400 to 3400 pounds per 8-hour day — after installing a Johnson Boiler Feed System. This 22% reduction in fuel consumption is impressive — but not unusual for Johnson Equipment, which in some laundries has provided fuel savings as high as 30%.

This operating chart is definite proof of the fuel savings achieved by the Johnson System, due to its returning condensate at far higher temperatures. In

addition, it brings about a substantial drop in operation and maintenance costs.

Translated into dollars these benefits represent important savings — savings, which not only pay for the Johnson System in a short time, but continue as long as it is in use.

Why not have us survey your needs right now, without cost to you. Our nation-wide engineering staff stands ready to serve you promptly and with complete reliability.



This temperature chart shows how the Johnson System returned condensate to boiler at approximately 275° all thru the operating day. This step-up in thermal efficiency accounts for Johnson's ability to save plenty in fuel, power and water costs.

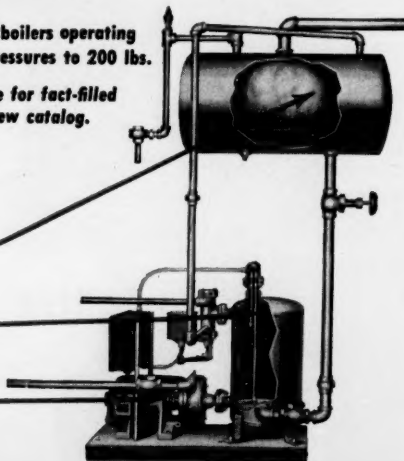
## High Temperature

For boilers operating at pressures to 200 lbs.

Write for fact-filled new catalog.

- 1 **Saves Fuel**—as much as 20%. Stabilizing the pressure here to keep condensate at 260°F. or higher does the trick.
- 2 **"Pressure Equalizing"**—the principle that permits a closed system, greatly reduces vapor losses and make-up requirements.
- 3 **Slashes Power Cost**—as much as 60%. For example, a 1½ Hp. motor serves where conventional pump needs as much as 10 Hp.

\*Name on request.



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Rotary Pressure Joints • Compressed Air Separators and Aftercoolers  
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# Now see how low your truck running costs can go!

## A FORD DEALER EXCLUSIVE!

This 144-page book is a record of over 5,500 cases . . . on-the-job truck running costs in over 195 kinds of truck-using businesses. It's another Ford first, and *only* your Friendly Ford Dealer has it!



Final Ford Truck Economy Run Results are in! Owners from every state in the U.S.A. rolled up 53,783,930 miles—recorded these on-the-job running costs. Every important truck-using business was represented in the 6-month Run, every size Ford Truck, every kind of road and load condition.

## "Truck running costs are only 2 1/10¢ a mile!"

—says Edward J. Harmeling,  
Dutch Cleaners,  
Cedar Grove, Wisconsin

Mr. Harmeling was one of over 160 cleaners and laundrymen who entered the nationwide Ford Economy Run. His POWER PILOT equipped Ford F-1 Panel Truck traveled 8,093 miles at a cost of only \$166.73 for gas, oil, maintenance and repairs!

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New "Final Results" book gives black-and-white evidence of how *little* it can cost to run a Ford Truck in your kind of work!

Now check your truck costs against "par"! The "Final Results" book is a practical "yardstick" that lets you compare your running costs with the actual experience of other truck users in your kind of job.

See these cost-to-run figures today! There's no obligation. Your Ford Dealer will be glad to show you over 5,500 reports . . . arranged so that you can easily find cases with loads and working conditions similar to yours. See actual running costs for gasoline, oil, maintenance and repairs, paid for by actual truck operators, on actual jobs!

It may save you real money! See how important it is to have the truck *exactly* right for your job. Before you buy any truck, see written evidence of how little Ford Trucks cost to run in *your* type of business . . . in any type of business!

## FORD TRUCKING COSTS LESS

. . . because Ford Trucks last longer! Using latest registration data on 7,318,000 trucks, life insurance experts prove Ford Trucks last longer!

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*Wrisley*

Top quality Flakes  
Powder • Granules  
42% Titre  
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For Wools,  
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removal in first suds.  
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Ready to use.  
Balanced WERKRITE base  
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For delicate fabrics.  
Medium titre 92%  
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You need no introduction to Wrisley or Werk.  
Two grand names in soap that have always given  
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Next time, call a Wrisley man. He'll know how to  
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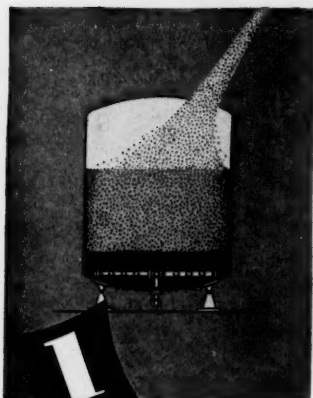
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**WERK****INDUSTRIAL SOAPS**

by

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# Three Ways to Get MORE SOFT WATER

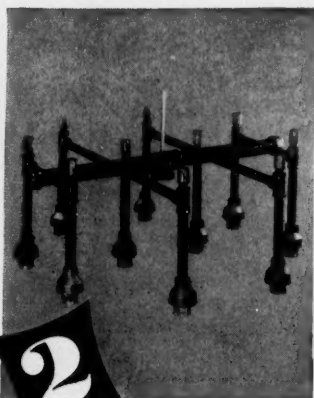


1

**By Refilling Your Water Softener With New High Capacity Elgin Zeolite you can get 3 to 10 times more soft water.**

Think of it, from 3 to 10 times more soft water from your present water softener by simply refilling it with one of Elgin's new high capacity zeolites. Here is a dividend-paying investment you can't afford to pass up. In addition, regeneration will be required less frequently with savings in regeneration time and salt costs.

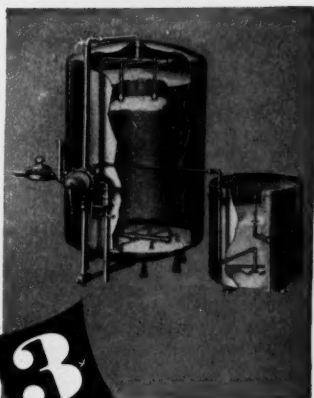
Replacement of lost or worn-out zeolite also will provide increased soft water output. All types of zeolite are available for immediate delivery.



2

**By Equipping Your Water Softener With An Elgin "Double-Check" Manifold System which permits the use of a deeper zeolite bed to further increase capacity as much as 44%.**

The ingenious Elgin "Double-Check" manifold system makes it possible to place far more zeolite in a water softener and to utilize it more efficiently. Capacity increases of as much as 44% can be secured. Loss of costly zeolite will be prevented too. Higher brining and backwashing efficiencies will be obtained. Here is another low cost answer to the need for more soft water.



3

**By Installing A New Elgin Water Softener of "Double-Check" Design which gives up to 44% more soft water than softeners of conventional design.**

Where new equipment is required, here is today's outstanding buy. Size for size, the Elgin Water Softener of "Double-Check" design delivers up to 44% more capacity than water softeners of conventional design. This big increase is due to the ingenious "Double-Check" manifold system of the Elgin which permits far more zeolite to be placed in the softener without zeolite loss. Get the facts about this amazing water softener before you buy.

## Check Your Water Softener Requirements NOW

Avoid the trouble and expense of hard water. Be assured of getting an adequate supply of zero soft water for the critical months and years ahead. You'll be glad you

did — because soft water cuts costs while improving quality of service, and you will never make a better dividend-paying investment.

*Coupon  
Brings Complete  
Facts —*

### ELGIN SOFTENER CORPORATION

150 NORTH GROVE AVE., ELGIN, ILL.



Please send facts covering the services checked.

☐ Refilling with new high capacity Elgin Zeolites

☐ Modernizing present softener by installing Elgin "Double-Check" manifold system

☐ Complete facts covering Elgin "Double-Check" Zeolite Softener

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Mail to Elgin Softener Corp.,  
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# Speed Your Press Production... Cut Your Maintenance Costs

WITH THESE

# NYLON PRESS

**ADS-LIFE features such advantages as these:**

1. Exceptional durability
2. Minimum loss in operating time
3. No slippage of garments on press
4. ADS-LIFE fits snugly over buck
5. No premature deterioration due to cracking
6. High abrasive resistance

**REMEMBER!** All these Whitehouse products were *pecially designed* for laundry and dry-cleaning industries after many months of laboratory research. *Look to the leader* for the best value in cover materials and nylon laundry nets.

## KEMPRO

For collar and cuff units, we believe you won't find anything to equal the performance you'll get from Whitehouse KEMPRO. On all presses requiring more drag, non-slip nylon KEMPRO is ideal.



# COVERS

by **WHITEHOUSE**

**NEW! ADS-LIFE offers amazing durability!**

Yes, Whitehouse Products now brings you the sensational ADS-LIFE nylon cover cloth. It outwears *any* cover material tested in our laboratories!

ADS-LIFE combines the qualities that can bring you maximum operating economy. It provides a perfect pressing surface, enabling your operators to get fast, efficient production with the least physical effort. **Available as piece goods or in tailored press covers.**

**STYLE  
3025 C**

Where slippage is not a factor, when you want speedy production, high quality work, and real economy, use Whitehouse Style 3025 C cover material (nylon).

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**WHITEHOUSE PRODUCTS, INC.**

**360 Furman Street  
Brooklyn 2, N. Y.**

# Here's the trend in the Modern Washroom

... it's

## STAINLESS STEEL

Equipment!



WRITE FOR YOUR COPY  
OF THIS NEW BOOKLET

### "ALLEGHENY METAL in the LAUNDRY INDUSTRY"

24 fact-filled pages of information and pictures for you on the advantages of stainless steel in laundry equipment—free on request.

SEND FOR IT TODAY  
ADDRESS DEPT. L-22

The big consideration in any equipment purchase is how to get the most for your money—and in the laundry field today, that means equipment made of Allegheny Metal, the pioneer stainless steel.

In the very first place, stainless steel laundry equipment—like the washers illustrated above—bring you the great advantage of the latest and most modern design. They're trim, compact, and highly efficient . . . fine to operate, as well as fine-looking.

And in the second place, *no other metal* is as perfectly suited to laundry requirements as stainless steel. No other metal combines corrosion-resistance, great strength and hard-surfaced, long-wearing qualities to the same degree. • Buy stainless steel equipment—it *pays!*

**ALLEGHENY  
UDLUM**  
STEEL CORPORATION  
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*Nation's Leading Producer  
of Stainless Steels  
in All Forms*



ALLEGHENY METAL is stocked by all  
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*The Swing is to OLSON*  
**KURB-SIDES**

*-they're delivering the goods  
 at LESS COST  
 per-ton-mile!*

**High Strength ALL ALUMINUM-ALLOY Construction**

**LONG LIFE  
 LOW UP-KEEP**

**LESS WEIGHT  
 MORE LOAD SPACE**



**Aluminum Gives No Quarter  
 to Rust and Corrosion**

*—Deterioration Gets No Start!*

**The Body Will Outlast the Chassis**

An OLSON Aluminum Kurb-Side Body stays clean, sparkling, continuously ship-shape. Within and without . . . dirt, grit, water or grease find no place to lodge. Rust and corrosion can't take hold! Simple maintenance insures lowest operating costs.

**OUTSTANDING FEATURES**

- Curb-level Entrance and Exit
- Full-length Sliding Side Doors
- Door Openings—up to 31" wide
- Roll Windows in Side Doors
- Rear Step set in Rugged Bumper
- Choice of 3 Rear Door Styles
- Tilt Seat Folds Under Wheel
- Foam Rubber Seat Cushion
- Inside Headroom, 70"
- Unobstructed Loading Space
- Safety-plate Steps
- Complete Roof Insulation
- E-Z Eye Glass Windshield



**HIGH, WIDE, SPACIOUS**



**Weights 1000 lbs. Less  
 Carries a Half Ton More!**



**"The Best Body on Wheels". . . Say Operators  
 PROVIDES BETTER, FASTER LOAD HANDLING**

Easier to drive. Nimble in traffic. Cuts delivery time and costs. Saves on tires, gas, registration fees, garaging. Improves driver-morale. Eliminates fatigue factor. Promotes greater efficiency. To the delivery truck field, precision-built Kurb-Side Bodies bring aluminum's strength, economy and long-life values . . . so essential to today's profitable operations!

**Forward Control Design • 3 Super-sized Capacities**

Monocoque construction affords greater pay-load space—safer operation—full view front and side vision. Three Kurb-Side body sizes now available . . . 435 cu. ft., 360 cu. ft. and a new 300 cu. ft. High, wide and handsome, all three make very light of traffic, handling and operating . . . turn in excellent delivery report cards. Model illustrated indicates broad, clear surface areas adaptable for design and identification purposes.

**Contact Your Truck  
 Dealer—Today!**

Your OLSON Body dealer is also your well-known truck dealer. If at present he does not have the newest OLSON Body models on display, please request full information direct from



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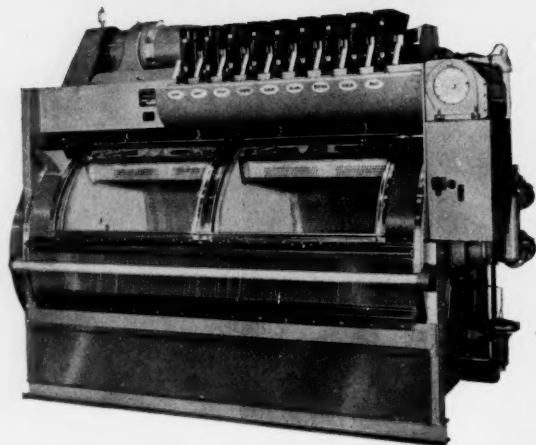
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INDEPENDENTLY BUILT FRAME EXTREMELY RIGID SHELL REINFORCED WASHING CYLINDER

## ROBOT "400"



Precision operation . . . Completely automatic . . . Rugged life-time construction . . . this combination of ROBOT features assures high production with maximum economy.

Pre-punched formula cylinders preclude *costly* errors and *wasted* supplies—the right amounts, properly mixed enter the wash wheel at the right time.

3 to 6 extra loads per day—reduced labor costs—freed plant space—supply savings—increased customer satisfaction—all are *installation-proven* facts, that will reflect in greater profits for you.

There is a ROBOT for your washroom, inquire to-day!

Robot Laundry Machinery Sales  
Division of The Wolf Company  
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Please send without obligation full information  
on ROBOT Self-contained Automatic Washers.

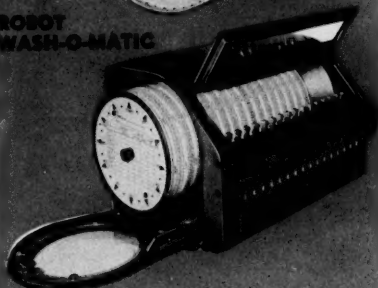
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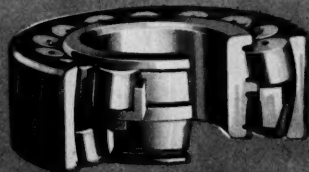
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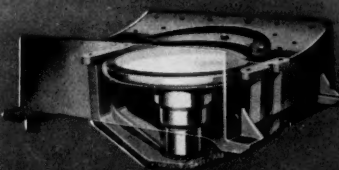
ROBOT  
WASH-O-MATIC



OVERSIZE-SELF ALIGNING  
DOUBLE ROW ROLLER BEARINGS



TWO HUNDRED GAL. PER MINUTE  
DISCHARGE CAPACITY  
HYDRAULIC DUMP VALVE



# ROBOT

LAUNDRY MACHINERY SALES

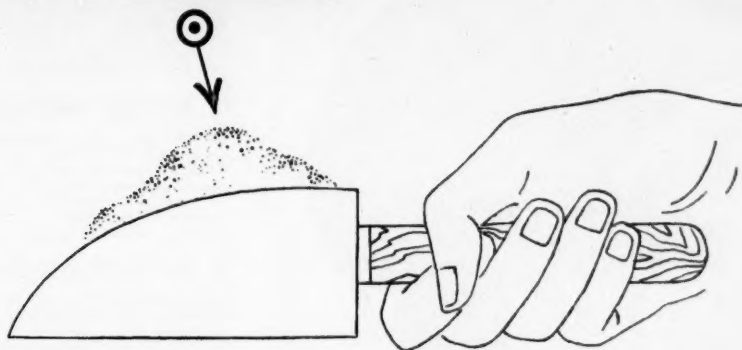
DIVISION OF THE WOLF COMPANY

CHAMBERSBURG, PENNSYLVANIA

**THE FIRST AND ONLY SELF-CONTAINED COMPLETELY AUTOMATIC WASHER**

# Garments "Stay Healthy"

## ON THIS "BALANCED DIET"!



A properly balanced diet, doctors tell us, is essential to our health and strength. And it is equally true that fabrics need a "balanced diet" of soap and builders to keep them fit . . . to safeguard their strength.

You give your customers' clothes the benefits of a "balanced diet" when you "feed" them Ozonite. For Ozonite is a scientifically balanced soap — expertly

compounded from high grade neutral soap and selected builders to assure efficient dirt removal, whiteness maintenance and protection to fabric strength. You'll start getting — and *continue* getting — top quality work when you start using Ozonite. You'll find Ozonite convenient . . . efficient . . . safe . . . economical in time, manpower and money. A month's trial will prove it.

## OZONITE

Procter & Gamble, Cincinnati, Ohio





# HUEBSCH LAUNDRY and



1.

## 1. OPEN END TUMBLER

Fast drying—Efficient and economical operation—Quick easy loading and unloading—much less labor required—Sturdy construction—Low maintenance. Laundry type in sizes 36" x 18"; 36" x 24"; 36" x 30" and the new 42" x 42" for large volume drying. Any of these sizes may be equipped with fused extinguisher and explosion proof motor for dry cleaning operation. Single, double or quadruple coils available. 42" x 42" size available only with double or quadruple coils.

## 2. FEATHER RENOVATOR

Cleans, restores and revitalizes pillows that are flat, lumpy and lifeless. Provides a proved source of additional volume and profits for your business. About 7 processing bags filled with feathers can be processed at one time. The Feather Renovator is quickly and easily convertible for use as a regular 4 coil laundry tumbler by simply removing the left-hand door pin.

## 3. TWIN-CYLINDER TUMBLER

This compact unit will dry the smaller fluff dry bundles or towels, from finished work bundles, more efficiently than they can be tumbled in larger machines. Each of the two 26" x 24" cylinders, set one above the other in a vertical housing, has a capacity of 15 pounds (dry weight). Drying time approximately 20 minutes. Substantially saves on floor space and tumbler investment.

## 4. DOUBLE SLEEVER

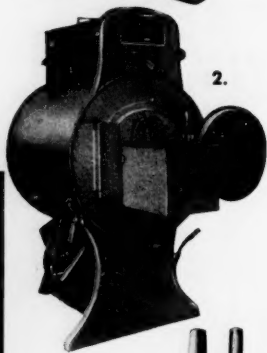
Shaped to fit the largest variety of sizes. Combination of double taper and notched edges produces better and faster work than any other method.

## 5. ROOT GARMENT BAGGER

Keeps your bagging up to the minute . . . eliminates waiting. Adjustable rod accommodates longest garments. Easy to swing longest bag off of bagger. Racks for holding garments to be bagged also available.

## 6. ALLWAY PANTS SHAPER

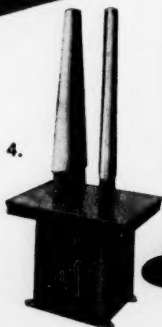
Goodwill and business is lost if trousers are too short or too tight. Cleaners find it necessary to wash larger percentage of regular suit trousers. Allway resizes and shapes length, calf, thigh, seat, crotch and waistband. May be had in Standard model or with fan and steam coil unit.



2.



3.



4.



5.



6.

# DRY CLEANING EQUIPMENT

## 7. CHIEF HANDKERCHIEF IRONER

Low initial cost—Quantity production—Quality finish—Economic operation. Produces perfect work because handkerchief is completely straightened and squared on the pad before it is ironed. This model, 20 inch, with fiber padding is complete with Discovery Fluffer mounted on Ironer and Folding table. Also available, 25 inch Ironer for handkerchiefs and napkins. Standard with fiber padding (air rotated) with fluffer mounted on Ironer and Folding table; Ironer manually rotated with Fluffer mounted on Ironer and Folding table.

## 8. SPRING-TYPE FILTER

Cuts costs and improves dry cleaning service. Sturdy, compact unit illustrated is fast, efficient, and economical. Easier to clean and maintain. Has rated capacity of 2,000 gallons per hour. If greater capacity is desired, two filters can be used side by side, or one above the other. Priced lower than conventional filters of comparable capacity.

## 9. AUTOMATIC VALVES

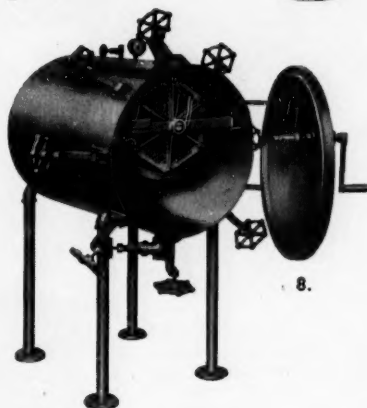
Increases production . . . improves the work, saves time and money. Easy to open . . . close automatically. Sturdily constructed for heavy duty in 1½ x 2" Two-way; 2 x 2½" Two-way; 2½ x 3" Two-way; 3 x 4" Two-way. Also made in Three-way and Four-way for laundries and one-way for dry cleaners.

## 10. FORM-RITE COLLAR SHAPER AND IRONER

Gives quality appearance and maximum comfort. Because the collar is the most important, Form-Rite is the most important machine in your shirt line.

## 11. GARMENT DRYER

Both large and small cleaners will find the garment dryer a very useful machine. Adjustable hanger rod accommodates unusually long evening gowns. Five adjustable clamps hold dresses at the bottom. Two blade aeroplane type fan.



# HUEBSCH

*Originators*

**HUEBSCH MANUFACTURING CO.**

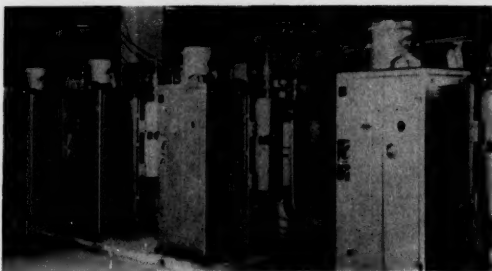
3775 N. Holton Street  
MILWAUKEE 1, WIS.

Division of THE AMERICAN LAUNDRY  
MACHINERY CO.

# VAPOR-CLARKSON STEAM GENERATORS

To be shown at A. I. L. Convention in Chicago  
By Mercury Cleaning Systems, Inc.

In the June issue of "Starchroom" (pages 71-72), appeared a feature article on the unique and efficient use of seven "package" 165-H.P. diesel-train-type steam generators in the new

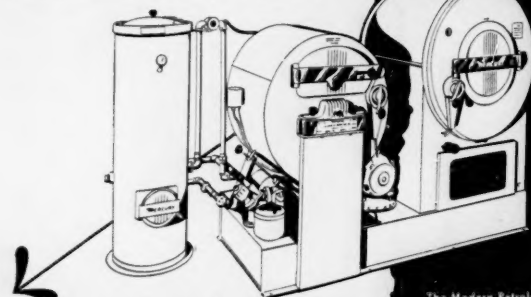


Union Pacific Railroad Laundry at Ogden, Utah. Similar editorial and engineering articles on the unusual features of these Vapor-Clarkson Steam Generators are appearing in leading Laundry, Power, Heating and Engineering publications throughout the world.

A "package" Drycleaning Department  
With A 10 to 1 Pay-Off

**\$50,000.00 CAPACITY**  
**\$5,000.00 INVESTMENT**

One Mercury Drycleaning Unit	... \$2850.00
Two 40" Utility Presses	..... 1395.00
Spotting Board & Puff Irons	..... 440.00
Ironing Board & Steam Iron	..... 115.00
Freight & Miscellaneous	..... 200.00
<b>TOTAL INVESTMENT (less boiler)</b>	<b>... \$5000.00</b>



**CAPACITY**—Many of the 3000 successful Mercury owners do \$50,000.00 annual volume with a single unit. Over 100 have added a second Mercury Unit for greater volume.

**INVESTMENT**—\$5,000.00 may be spread over monthly payments if you prefer. 50 G.P.H. STILL OPTIONAL. **PERFORMANCE**—The precision-built Mercury uses 140° F. solvent for safety and economy. Cleans and extracts in the same cylinder so operator never handles wet garments. Saves labor, saves solvent.

The Modern Petroleum Drycleaning Unit! 36 pound washer-extractor, 36" x 30" tumbler, six plate 1000 GPH filter, sight glasses, piping, pump and storage tank in one complete system.

**\$2850**  
F.O.B. FACTORY

DRY CLEAN WITH DRY HANDS

**MERCURY**  
The Modern Petroleum Unit

**MERCURY  
CLEANING  
SYSTEMS, INC.**

549 W. Washington Blvd.  
Dept. 22, Chicago 6, Illinois  
Telephone ANdover 3-3420



For size and weight, this is the most powerful steam generator in history. It develops up to 200 pounds steam pressure in two minutes from 50 degrees cold water, using #2 fuel oil or gas. One electric motor operates the entire "package"; water pump, fuel pump, blower and magneto. The automatic on-and-off controls produce steam only as needed. It has all the built-in safety controls required by A.S.M.E. and U.L. One 165-H.P. unit (size 52" x 76" x 78") will handle about 500 pounds of dry laundry per hour. And no foundation or "stack" required.

Vapor-Clarkson Steam Generators will be shown at the A.I.L. Convention in Chicago by Mercury Cleaning Systems, Inc., whose Dry Cleaning Unit advertisement appears on this page. Engineers will be available to discuss any problems relating to steam or hot water.

Vapor-Clarkson Steam Generators in sizes 10-H.P. to 165-H.P. are distributed in U. S. A. to Laundry and Drycleaning Plants by Mercury Cleaning Systems, Inc. through its jobbers.



*the*  
**National**  
*can*  
**take it!**

### AND SO CAN THE MARK IT MAKES

National Lever Principle Hand Marking Machine shown here is available with 6, 8, or 10 characters. Write today for complete information.

Engineered to "take it" . . . soundly built for long years of trouble-free service! The National Lever Principle Hand Marking Machine marks *directly into the fabric of the article* . . . the only proven way to make clear marks and to avoid frequent expensive remarking of garments.

For small laundries and dry cleaning plants, there is no substitute for this machine. Before you buy any marking machine compare it with the National.

THE

**National**

MARKING MACHINE COMPANY

4026 CHERRY STREET • CINCINNATI 23, OHIO

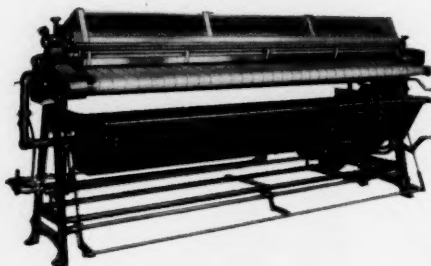
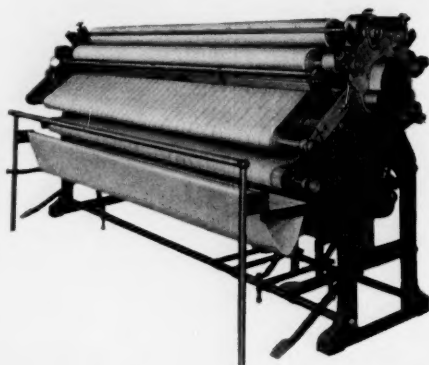
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## CHICAGO GAS HEATED FLATWORK IRONERS

These modern Gas Heated Flatwork Ironers are available in different sizes for different production requirements. They are designed for hotel, hospital, institutional and small commercial laundries where a maximum of approximately 2,000 lbs. of flatwork per day must be handled. Machines are lower in price than Steam Heated Ironers of equivalent capacity and operating and maintenance cost is very low. All machines ball bearing construction throughout. Machines are distributed through leading laundry machinery firms all over the country.

### 6 ROLL MODEL 11 GAS HEATED IRONER

This Ironer is designed for small installations where from 200 to 700 lbs. flatwork must be handled per day. Made with rolls 60", 80", 100" or 110" long. 110" size recommended for most installations. Machine has heated roll approximately 10½" in diameter, 5 padded compression rolls, variable speed drive, all safety features, with pivoted receiving shelf for front or rear return of linens. Automatic heat control optional.



### 6 ROLL MODEL 16 GAS HEATED IRONER

This Ironer is designed for installations where from 500 to 1,300 lbs. flatwork must be handled per day. Machine has heated roll 16" diameter, with 5 padded compression rolls 110" long. Equipped with variable speed drive, all safety features, with or without return ribbon conveyor and automatic heat control.

### 8 ROLL MODEL 24 GAS HEATED IRONER

This Ironer is designed for installations requiring from 1,000 to 2,000 lbs. flatwork per day. Machine has heated roll 24" diameter, with 7 padded compression rolls 110" long. Equipped with variable speed drive, all safety features, with automatic heat control.



**IRONERS - WASHERS - EXTRACTORS - DRYERS - TRUCK TUBS**

**CHICAGO DRYER COMPANY**

2212 N. PULASKI ROAD

CHICAGO 39, ILLINOIS



## A WATER SOFTENER THAT HAS EVERYTHING

WIDE RANGE OF ZEOLITES • HYDROMATIC VALVE • AUTOMATIC CONTROLS  
PLENTY OF SOFT WATER • LONGER TIME BETWEEN REGENERATIONS • SAVE ON LABOR

COCHRANE ZEOLITE Water Softeners have been serving the laundry industry for generations. Modern improvements in the basically efficient Cochrane Softener make the apparatus of today the ideal softening equipment for the modern laundry. A wide range of zeolite materials (siliceous and non-siliceous, greensand and synthetic) increase the capacity, and increase softening time between regenerations. The exclusive Cochrane Hydromatic Single Control Valve eliminates complicated "valve nests" and makes for easy, trouble-free operation. With the Hydromatic Valve arranged for automatic control, labor costs and maintenance costs are cut considerably.

Write for details and a copy of Publication 4520.

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3101 N. 17th St., Philadelphia 32, Pa.

In Canada: Canadian General Electric Co., Ltd.,  
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In Mexico: Babcock & Wilcox de Mexico, S. A.,  
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HYDROMATIC SINGLE CONTROL VALVE  
WITH INTEGRAL AUTOMATIC HYDRAULICALLY  
ACTUATED BACKWASH AND RINSE  
WATER FLOW RATE CONTROLLERS ELIMINATES  
NEED FOR SUMP TYPE CONTROLS

TREATED  
WATER  
OUTLET

METER  
WITH  
ALARM  
CONTACTS

CENTRAL  
CONNECTION  
FOR  
WATER  
AND  
BRINE  
DISTRIBUTORS

RAW WATER INLET  
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BRINE  
EDUCTOR

NON-FERROUS  
BRINE DISTRIBUTOR

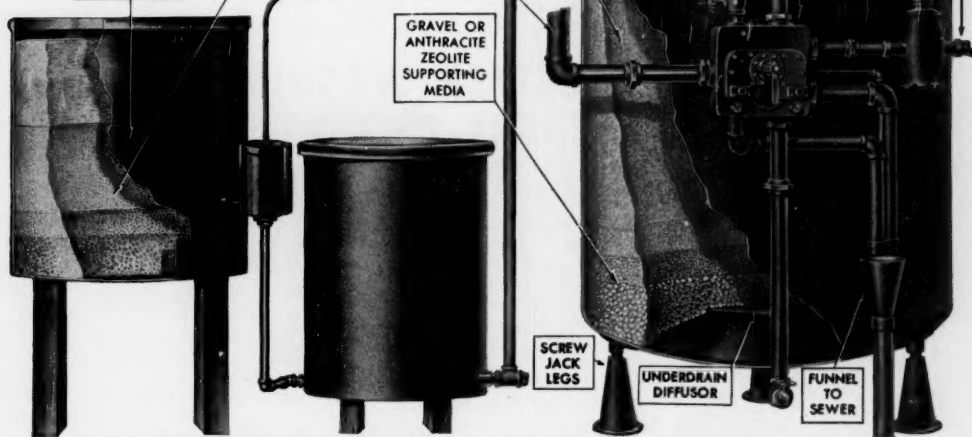
ZEOLITE: RESINOUS, CARBONACEOUS, GREENSAND  
OR SILICA GEL TYPES

GRAVEL OR ANTHRACITE  
ZEOLITE  
SUPPORTING  
MEDIA

RAW WATER  
TO HYDROMATIC  
VALVE

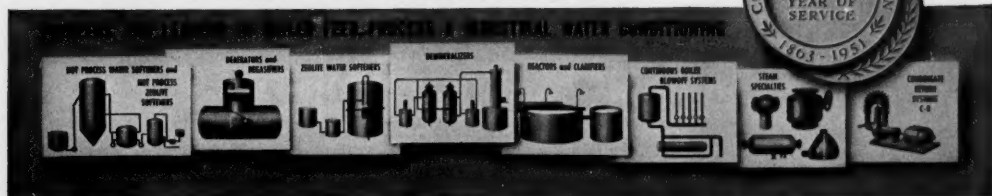
SAND & GRAVEL  
OR GRADED  
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BRINE FILTER

BRINE  
REGENERATING  
TANK



The Cochrane Zeolite Softener with Hydromatic Valve arranged for Manual Operation

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# LAUNDRY CUSTOMERS EVERYWHERE LIKE-



**BETTER  
QUALITY  
WASHING**

**QUICK  
PERSONAL  
SERVICE**

## A BETTER WASHING SERVICE! LAUNDRY OWNERS EVERYWHERE LIKE IT TOO! THEY SAY:

"For the first time in 42 years of our laundry experience we have been able to serve over 2800 new customers in ten weeks without chasing our trucks all over the city for them."

"With the Milnor System our bundle weight has increased 23% because of quicker service."

"The faster service is enabling us to gradually spread our work load over the entire work week."

"The Milnor System of Individual Washing has enabled us to get our share of the self service laundry market."

"Our production costs in our finished family department have been reduced from 39% to 21%."

"Over 60% of our new customers bring in dry cleaning and use our other services too."

**THE MILNOR SYSTEM OF INDIVIDUAL WASHING  
IS GREAT NEWS! WRITE FOR DETAILS TODAY!**

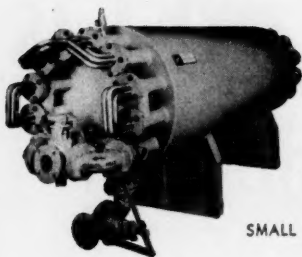


**MANUFACTURERS OF FINE LAUNDRY AND DRY CLEANING EQUIPMENT**

# New BREADY HEAT Reclaimer

Combined with BREADY engineering takes all the haphazard guesswork out of heat reclamation and water heating problems.

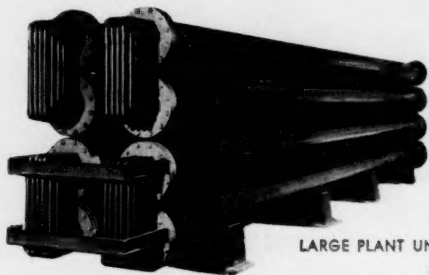
When you buy this equipment, you buy guaranteed-delivered-results.



SMALL PLANT UNIT

Small plant units — even for the planned store front jobs now in contemplation as feeder plants for larger power laundries.

BREADY HEAT RECLAMATION, Hot Water Heating and Recirculating Systems tied in with BREADY Basic Laundry Engineering, gives highest possible heat recovery, uniform temperature and highest efficiency at lowest possible cost.

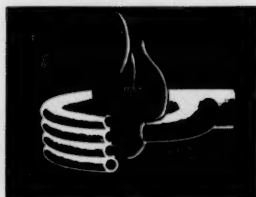


LARGE PLANT UNIT

ON BIG PLANTS — SMALL PLANTS  
OR ANY SIZED PLANT

BREADY equipment is specially designed to fit and match your operation.

Not just a heat reclaimer or hot water heater, but fully integrated heat recovery units that reach for and get every last degree possible and hot water heating systems that cannot fail to deliver the uniform temperature you demand and must have and with positive instant delivery to wheels.



## Our Guarantees

- Average fuel reduction or value of heat recovered — 35.2%.
- Average boiler horsepower reduction — 34%.
- Average temperature increase of pre-heated water:

Family Plant — 60°-70°

Commercial Plant — 70°

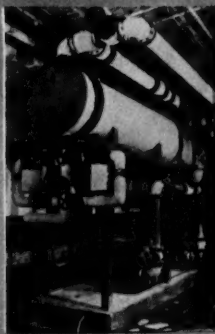
Industrial Plant — 90°

- Water to hot water supply within 10° of average temperature of waste water.
- Recovery of all the heat reasonably available within keeping with capital investment.
- Full manual or automatic back-flushing arrangement. No tube plugging or clogging.
- Continuous heat transfer during back-flushing.
- Heat Reclaimer Unit entirely above floor.
- Mechanical cleaning of catchbasin.
- No manual cleaning of Reclaimer.

UNDER TODAY'S THIN PROFIT MARGINS  
YOU CAN'T AFFORD TO OPERATE WITH  
COSTLY INEFFICIENCIES.

AND ANOTHER  
THING . . . All  
BREADY installations  
are supervised by factory  
engineers — your  
process operation is  
checked and balanced  
to new load condition  
to the end that you  
secure all possible  
benefit.

- It costs you nothing.
- Not even the slightest obligation to investigate.



HOT WATER HEATING AND  
RECIRCULATION SYSTEM

• Write Today for Details •

**BREADY ENGINEERING CORPORATION**  
3103 N. 27th St., Milwaukee 11, Wisconsin



# see for yourself why the new DAVIS **Z** NET is the laundry net for you!

## STARTLINGLY DIFFERENT CONSTRUCTION

Unlike the screening or curtain type  
of construction used thus far,  
the new DAVIS Z-NET is the first PURPOSE-MADE  
industrial laundry net.

## PROVEN PERFORMANCE

Performance the industry  
has long waited for.



Ask your jobber . . . or write for name of nearest jobber.

**MILLS, INC.** 211 Grant Avenue East Newark, New Jersey

At Chicago — A. I. of L.  
Convention Booth 82

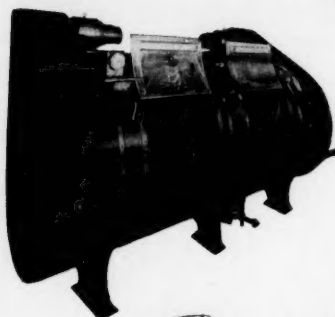
# A Great **ZEPHYR** Team for INCREASING PRODUCTION and REDUCING YOUR COSTS



## “HYDRAXTOR”

**For Fastest and  
Cheapest Extraction . . .**

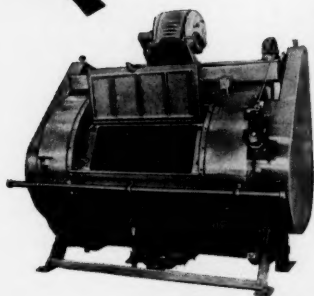
Handles 200 pound loads, 5 to 7 loads per hour. No foundations. No bolting. No balancing. No vibration. Can't damage fabrics. Won't bend pins. Leaves no wrinkles. Removes moisture by *gentle squeezing*. Save time, labor, handling.



## STAINLESS STEEL WASHER

**Saves Labor, Time,  
Supplies and Space . . .**

Requires less supplies per pound of load, less labor per load . . . gives greater output per square foot of lineal floor space and produces more work than any other washer on the market. New from top to bottom. New doors, frames, trunions. Greater speeds! Sizes: 36", 44", 54", 60" diameter; any length.



## BLACK IRON WASHER

**Fast, Quiet, Economical—  
Trouble-Free Dump Valves . . .**

Here is a powerful, rugged washer that can take heavy loads easily. Just the unit for production-wise plant owners. Extra heavy doors. High speed drive. Noiseless. Lowest operating costs. Cylinder sizes 36" to 60" diameter; any length.

**WRITE, WIRE, PHONE FOR THE NAME OF  
ZEPHYR DEALER NEAREST YOU . . .**

**ZEPHYR**

**LAUNDRY MACHINERY CO.**

LA SALLE AND HURON STREETS • CHICAGO 10, ILLINOIS

**VISIT ZEPHYR'S BOOTH NO. 5 AT THE A.I.L. CHICAGO CONVENTION**

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# BIG NET PROFITS

start with  
**Callaway**  
**"Rockweave"**  
**Cotton Nets**

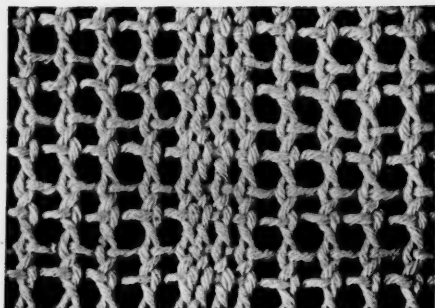
Look at these NET GAINS you get from CALLAWAY "LENO" (open mesh) and CALLAWAY "PLAIN" (close mesh) COTTON NETS:

- Pin Winners—streamline, lightning fast pinning
- Wide opening—easier loading
- High Tensile—strength uniformly distributed
- Pliable—minimizes snagging
- Mendable—quick repairing
- Peak Wheel Drop
- Suction Scrubbing Action
- Free Passing of Insolubles
- No "Balling" of Articles
- No "Hour Glass" Separation of the net load
- No Distortion . . . No Stretching . . . No Dragging
- Products of pioneers in high quality net manufacturing

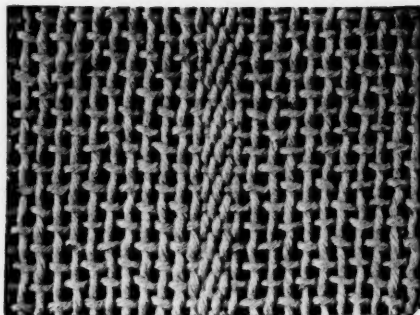


Contact your Callaway representative for further net details. Also for cover cloth, duck, apron duck, double-faced felt, double-filled paddings and Callaway's asbestos assembly.

**See us in Chicago,**  
**Booth No. 28, A.I.L. Convention**



**LENO—Open mesh net—reinforced**



**PLAIN—Close mesh—reinforced**



Reg. U. S. Pat. Off.

## Callaway Mills Inc.

SALES SOLICITORS

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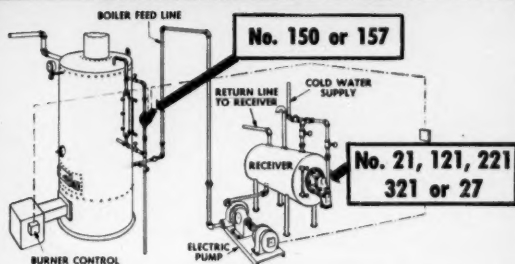


### The pump controls

Highly perfected and proved in thousands of installations, the McDonnell No. 150 is the pump control for boilers with steam pressures up to 150 lbs. Convenient terminals provide circuits for pump motor (or starter), for low water cut-off of burner, and, when desired, for low water alarm. No. 157 (at right) is the same dependable control with integral water column which greatly cuts cost of installation under many conditions.

### Receiver tank make-up feeders

To provide make-up water when insufficient condensate is returned to the tank, dependable McDonnell make-up feeders are available. Simplest form when adaptable is the No. 21 series (at left) which is installed right in receiver tank and feeds water directly. Four flange shapes and sizes are provided in this series (Nos. 21-121-221-321) to fit openings in most tanks. The No. 27 (at right) takes care of conditions where installation with equalizing piping is necessary. These quality feeders seat drip-tight against high water pressures.



## —but no need to SCRAM with dependable boiler water level control

A steam boiler without automatic boiler water level control is strictly a "Sam-you-better-scrum" deal. But there's no need to scram when the job of safeguarding the boiler is taken over by the simple hook-up diagrammed above.

It will pay you to study this diagram for a moment and note how the water level (the feed pump) is controlled from the water level itself by a McDonnell No. 150 or 157 pump control. This modern method holds the water level within the close limits that steps up efficiency . . . pays for the control.

An extra switch on the control provides circuits for low water fuel cut-off and low water alarm if a fuse should blow in the feed-pump circuit. The McDonnell make-up feeder on the receiver tank maintains a minimum level in the receiver tank at all times.

Note the facts opposite about the dependable McDonnell equipment that will give you this protection and increased efficiency. Ask for data sheets covering every detail of the simple installation and wiring.

MCDONNELL & MILLER, Inc., 3500 N. Spaulding Ave., Chicago 18, Ill.

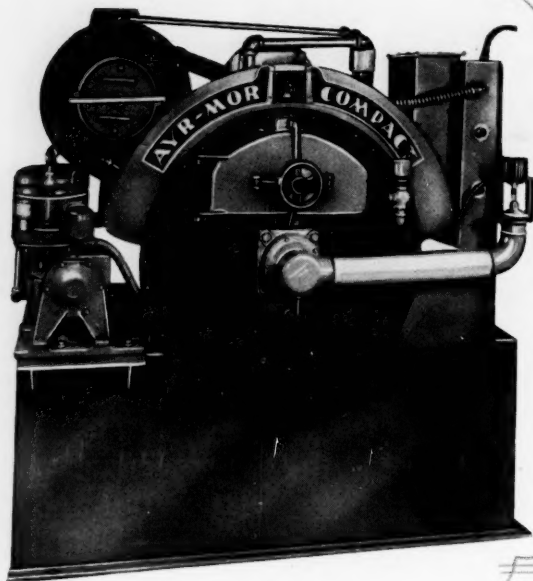


Doing One Thing Well

# MCDONNELL

More **NET PROFIT** in synthetic dry cleaning with the new

# AYR-MOR COMPACT



*No other dry cleaning unit  
gives you all these features . . .*

- ★ Handles up to 45 pounds per cycle load.
- ★ Saturated garments are never handled by operator, reducing hazards of toxic fumes.
- ★ High speed extractor gives proper operation speed with minimum of vibration, requiring only normal foundation structure.
- ★ Monel Screen Tubular Filter is automatically cleaned daily, no more messy, troublesome cleaning by hand.
- ★ 100 gallon still equipped with scraper cleaner assures clean solvent and reduces solvent costs.
- ★ Only unit with vacuum reclamation system.
- ★ Maximum air recirculation through garments reclaims more solvent.

**45 pounds in only 25 minutes!**  
**More pounds per solvent drum!**

Your net profit on dry cleaning depends to a large extent on your labor cost per pound and your solvent cost per pound. The new Ayr-Mor Compact is especially designed to reduce both of these major cost factors.

Now at last, you can get high speed washing, extracting and reclaiming. In 20 or 30 minutes up to 45 pounds of soiled clothing can be washed, extracted and aired—in one single operation. Operator merely presses button to start. A red signal light goes off when the cycle is complete. Solvent is

reclaimed and the cycle begins again. With this new unit even the unskilled operator can boost plant volume and cut operating costs.

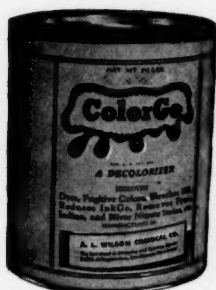
20 years of research and experience have gone into the development of this new velocity air recovering system. This is one of the most complete and fastest recovery units ever developed. This new machine is manufactured for us by the Kling Bros. Engineering Works, one of the pioneer manufacturers of synthetic dry cleaning equipment.

**FREE BULLETIN**—Write today for our latest bulletin with complete details of this new Ayr-Mor Compact.

A few Choice Territories are still open for qualified distributors. Write or see us at the Convention of the American Institute of Laundering, Stevens Hotel, Chicago.

*Ayr Mor*  
**MACHINERY COMPANY**

6546 NO. SHERIDAN ROAD, CHICAGO 26, ILLINOIS



ColorGo—a powdered stripping agent



TarGo—a distinctive spotter



InkGo—a liquid oxidizing (Bleaching) agent.



YellowGo—a liquid dye reducing agent

# See What Wilson Can Do...

If you want to make sure of top stain removal performance, use WILSON STRIPPERS and SPOTTERS.

YellowGo, TarGo, InkGo and ColorGo, have been tried, tested and used for over 20 years. Many laundrymen that used them 20 years ago, are still using them today.

These laundrymen use WILSON for one reason only, and that is: they know that they get superior stain removal when they use them.

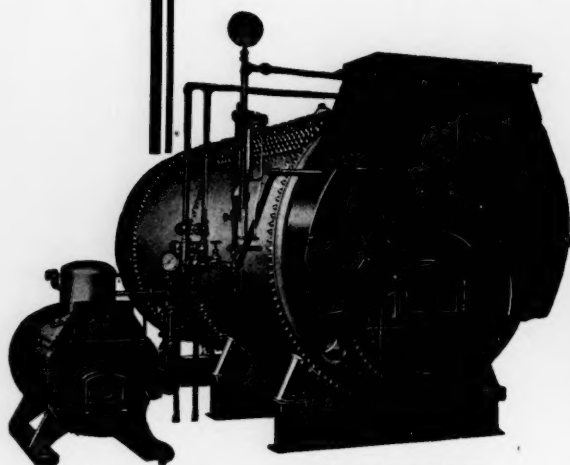
You too will find WILSON STRIPPERS and SPOTTERS most satisfying. Thanks to all those laundrymen and dry-cleaners over the entire country who support us in this statement.

Visit our Booth No. 127 at the A.I.L. Convention in Chicago. We welcome the opportunity to greet you.

Stains go with YellowGo,  
TarGo, InkGo, ColorGo,  
RustGo, and Penso

**A. L. WILSON CHEMICAL CO.**  
The last word in Stripping and Spotting Agents  
38 PASSAIC AVENUE, KEARNY, N. J.

# THE LEFFEL SCOTCH TYPE



HAND FIRED WITH COAL

## BOILER *One Unit* FOR COAL, GAS OR OIL

● Flexibility is the keynote of the Leffel Boiler. Regardless of your fuel preference or requirements, the same Leffel installation can be readily equipped for safe, efficient operation with either hand or stoker-fired coal or fully or semi-automatic gas or oil. Wherever quick volume production of dry, low cost steam is a prime necessity, Leffel Boilers have proved profitable investments through incomparable service and unparalleled economy. Leffel's 89 years of boiler making experience is your guarantee of outstanding boiler performance—and economy.

Write, Phone or Wire for Full Particulars  
Bulletins on Request

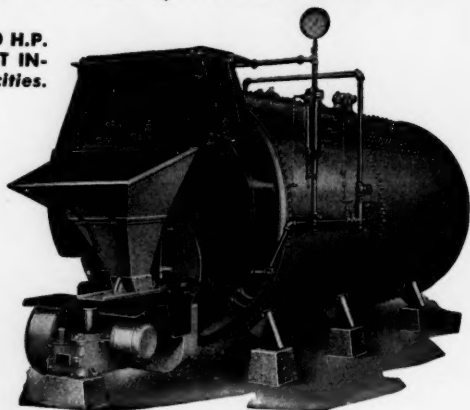
## *Built* TO EXCEED A.S.M.E. AND STATE BOILER CODE REQUIREMENTS

Leffel Boilers are available in sizes from 6 H.P. to 250 H.P. These are normal, standard commercial ratings—NOT INFLATED—but generously designed for overload capacities.

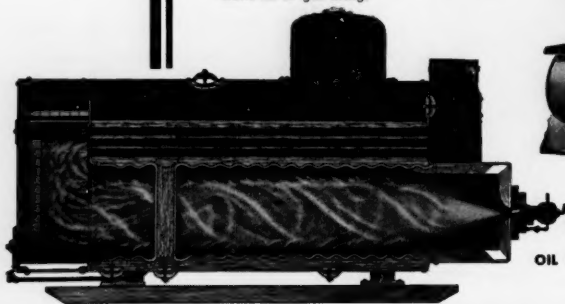
Built to stand up through the years.

AT RIGHT—Leffel Scotch Type Boilers can be successfully stoker fired. WE BUILD STOKERS EXCLUSIVELY FOR SCOTCH TYPE BOILERS.

BELOW—Cross section shows oil or gas adaptations. The same unit using coal can quickly be changed to fully or semi-automatic oil or gas firing.



STOKER FIRED



OIL OR GAS FIRED

## THE JAMES LEFFEL & CO.

Since 1862—89 Years of Better Boiler Building

POST OFFICE BOX SLJ.

SPRINGFIELD 99, OHIO

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# 3 OF A KIND...

economical, dependable in operation



by *Fletcher*

## "TWINTAINER" EXTRACTOR

As the name implies, the "Twintainer" has two containers . . . both with bottom discharge to expedite unloading. One "Twintainer" will handle as much work as several ordinary extractors, because of the time saved in loading and unloading. It is the only extractor with all these advantages:

- Twin Container-Trucks, stainless steel, with bottom unloading.
- Automatic Air Brake and Timer.
- "Finger-Tip" Control on separate stand—no push, no pull, no stoop, no strain.
- "Long Swing" Self-Balancing, with Adjustable Springs.
- Stainless Steel Curb, heavy gauge and polished.
- Stainless Steel Safety Cover, with air-operated automatic opening and closing.
- Close-coupled Motor—less floor space, easier balancing.

## "WHIRLWIND" EXTRACTOR

Like the "Twintainer," the "Whirlwind" also contains many exclusive features, including the labor-saving "finger-tip" control. Just set the pointer . . . and hydraulic brake goes "on" automatically, "off" automatically. "Finger-Tip" control provides longer brake life, smoother stop, and easier operation with less strain on the operator.

- Compact . . . uses less floor space.
- Easy to load and unload.
- "Silk-smooth" basket interior.
- Large Capacity stainless steel basket.
- Direct V-belt drive.

## "JUNIOR" EXTRACTOR

Compactly designed as a space-saver, the 30" and 33" under-driven "Junior" Extractors have efficient self-balancing features; will handle more unbalancing than any other machines of equal sizes. The 33" will carry full load from the popular 36 x 54 dry cleaning washers.

- Safer . . . machine won't start until safety cover is closed. Safety brake automatically shuts off power—locks after application. Stainless steel basket.
- Requires minimum floor space.
- Greater stability with heavy loads.
- Economical . . . lower power consumption—low maintenance cost.

**FLETCHER EXTRACTORS ARE BUILT OF QUALITY MATERIALS FOR UNEXCELLED EFFICIENCY AND LONG SERVICE. WRITE FOR ILLUSTRATED LITERATURE.**

# FLETCHER WORKS

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ESTABLISHED 1890

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## ERIE CITY IRON WORKS

Erie, Pa.

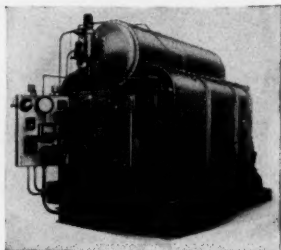
**ERIE  
CITY**

Manufacturers of custom built steam generators to any commercial size and pressure incorporating water tube boilers, water walls, economizers and superheaters; Type C 3-drum boilers; VL 2-drum water tube boilers with integral side wall water cooling; VC 2-drum with top, sides and front water cooling; Conventional

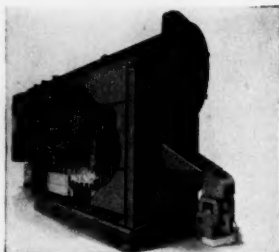
long drum, cross drum and 2-drum boilers; Economics with and without water walls; Welded H.R.T. and Heating boilers; Keystone Steam Generators completely factory assembled — oil or gas fired units. Pulverizers; Underfeed; Spreader and Traveling Grate Stokers; Lentz and High Speed Engines.

### ERIE CITY KEYSTONE STEAM GENERATOR

The "Keystone" — 2-drum water tube Steam Generator — PACKAGED. Here's big boiler performance in small cubage. Keystone combines in a factory assembled unit: low head 2-drum water tube boiler complete with boiler trim, a heavily insulated steel casing — automatic burner for gas, oil or both interchangeably — induced draft equipment and instrument panel with all controls mounted. Complete range of sizes from 75 to 800 h.p. at pressures from 160 p.s.i. Write for Bulletin SB38.



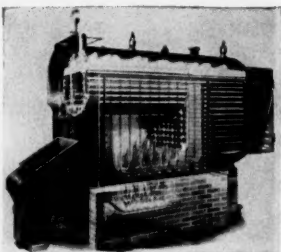
### ERIE CITY WATER WALL ECONOMIC



Economics, with side wall water cooling, get the most from automatic firing methods. They permit greater heat releases while reducing side wall refractory maintenance to the vanishing point. Ask for Bulletin SB34.

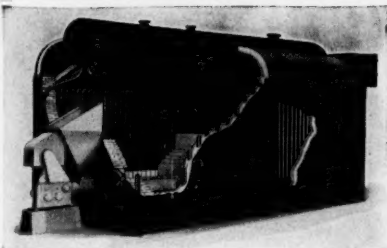
### ERIE CITY STANDARD ECONOMIC

An original design of boiler furnace and refractory constantly improved over 65 years, is now fusion welded to eliminate butt straps and all riveted seams. Available for all firing methods. Ask for Bulletin SB34.



### ERIE CITY VL 2-DRUM WATER TUBE STEAM GENERATORS

The VL features two horizontal drums of equal diameter, the top drum extending over the furnace is connected by two rows of vertical tubes to lower headers. The length of the side wall tubes can be varied to suit the required furnace volume. The inner row are bare tubes exposed to the furnace and circulation is upward from the horizontal headers to the upper drum — the outer row or downcomer tubes feed the headers and are protected by refractory tile and insulation. The VL is available in a wide range of sizes to 750 h.p. with many sizes up to 300 h.p. shipped completely shop assembled. Write for Bulletin SB24B.

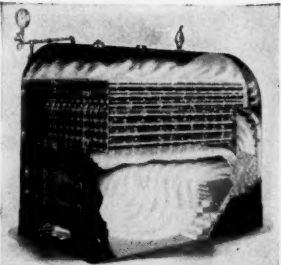
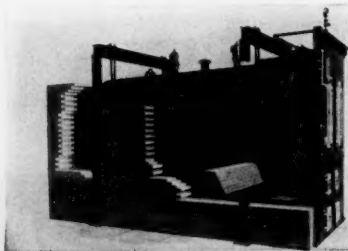


### WELDED H.R.T. BOILERS

← These fusion welded horizontal return tubular boilers in sizes to 300 h.p. and pressures from 100 to 150 lbs. are standard — higher pressures to order. All riveted seams are eliminated.

### WELDED HEATING BOILERS

These 3 pass welded steel → heating boilers are carried in stock in popular capacities. They are designed for all firing methods.



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Tested by U. S. Testing Co., Test No. 895, Jan. 29, 1949



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Don't let burned, hardened, cracking, shriveled and shrunken furs and leathers baffle you. Save time, trouble and worry over damages caused by steam or in drycleaning processes.

Bixbee is the miracle product that has become a necessity in the fur industry for giving supple softness and renewed vitality to apparently hopeless pieces. Formula #20 has been created especially so that drycleaners can score that same success . . . without any technical training. It opens the door to satisfied customers and extra business . . . shuts the door against loss!

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Enclosed is my dollar, for which please send me the trial bottle for the approved BIXBEE #20.

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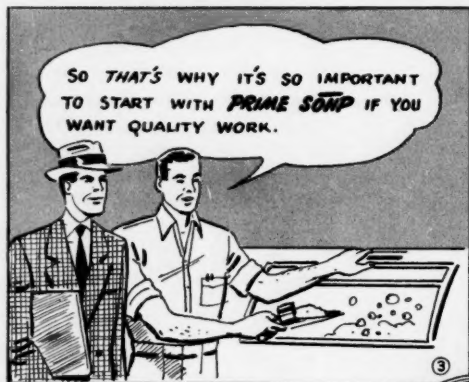
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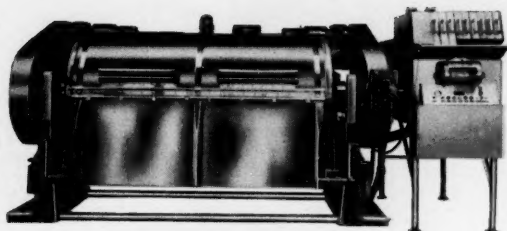
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## FOR BETTER EARNINGS ALL THROUGH YOUR PLANT!

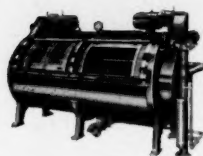


Wherever they're installed, Laundrymen praise these great machines because they pay off in better profits, year after year.

Ruggedly designed SUPER equipment is engineered to end expense . . . refined to eliminate waste motion . . . priced to pay dividends on every operation. Before you invest—investigate the SUPER Line. When you've got the facts, we believe you'll specify SUPER.

**ALL SUPER EQUIPMENT  
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### WASHING...

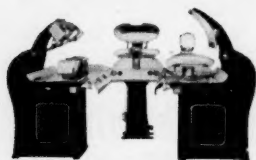
For peak efficiency in minimum space, here's the new **SUPER UNLOADING WASHER** (above) with pneumatic-powered "turnover." Boosts washing speed and capacity tremendously. Automatic or semi-automatic controls . . . one or two speed . . . AC or DC. . . single or double-end drive . . . sizes from 42" x 42" to 42" x 96" . . . all stainless steel.

For conventional washing methods, **SUPER METAL WASHERS** in heavy stainless steel or Monel are offered in fifteen standard sizes—from 30" x 30" to 54" x 126" . . . push-button controls . . . one or two speeds . . . AC or DC . . . single or double-end drives . . . open and Y-types . . . one to 12 pockets . . . 60 to 900 lbs. dry capacity. Automatic or semi-automatic controls.



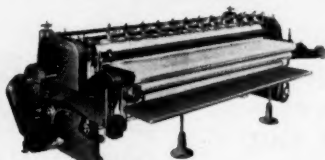
### EXTRACTING...

The **SUPER 48" and 30" EXTRACTORS** feature open-top, underdriven design . . . smooth acceleration, deceleration . . . positive safety cover interlock . . . all-steel outer curb . . . electric self-actuating brake . . . selective timer . . . choice of stainless steel or Monel metal . . . 200 lb. and 80 lb. dry capacities.



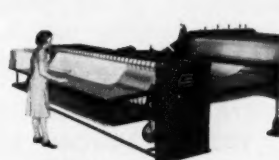
### PRESSING...

Air-powered **SUPER AJAX LAUNDRY PRESSES** deliver outstanding production records and superb quality. Fast-action mirror-finished steel heads exert tremendous pressure. Matched shirt and linen supply units, plus all other head and buck styles. Two-hand safety controls.



### IRONING...

Choose **SUPER CHEST-TYPE FLATWORK IRONERS** in 2, 4, 6 or 8 roll sizes for any desired capacity. Two-roll size available in return-apron model where floor space is limited. Or choose the famous **SUPER CYLINDER IRONERS** in 1, 2 or 3 cylinder sizes . . . both sides ironed in one pass!



### FOLDING...

For large flatwork volume, **SUPER AUTOMATIC FOLDERS** with electric-eye operation deliver enormous savings . . . fold 12 to 16 sheets per minute direct from ironers with only one girl receiving. Handles flatwork from 30" to 90" range; by-passes out-of-range articles automatically. Adaptable to almost any type of flatwork ironer.

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I've seen all makes but I've never seen any to equal Hoyt Dryers for performance or for good, sound construction.

Don't forget the Hoyt Gear Reducer. No chains, sprockets, couplings. Here's the ideal drive for silent, trouble-free operation.

This built-in lint trap is standard equipment on every Hoyt machine and it sure saves time, heat, and installation costs!

Look... power where it belongs! Two motors, for fan and basket. Fan can be exhausting (cooling off period) while basket is being loaded or unloaded — no heat flashbacks.

This side exhaust connection saves floor space... keeps your Hoyt Dryer close to the wall instead of way out in the aisle. The built-in lint trap is a big space-saver, too.

# HOYT'S A HIT!

Hoyt Dryers are simple in construction. Their parts are high quality, made by outstanding manufacturers and well known in your neighborhood.

Hoyt Dryers are complete in every detail... easier, more economical to install. Nothing extra to buy!

Modern engineering builds these plus-values into all Hoyt Dryers. No wonder more and more laundries and drycleaners are buying Hoyt Dryers and Tumblers every day!

There's a Hoyt Dryer for your needs — Automatic Deluxe (\$530.00) or Standard Models (\$405.00). Sizes: 36" x 18", 36" x 24", 36" x 30".

## MAIL COUPON TODAY!

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988 Jefferson Street, Fall River 1, Mass.

Please send me complete information on Hoyt Dryers and Tumblers. Gas? ☐ Steam? ☐  
Also name of nearest distributor.

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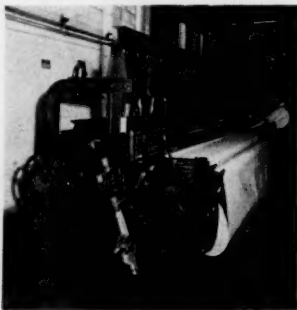
**HOYT** LARGEST MANUFACTURER  
OF DRYERS EXCLUSIVELY

## Step No. 4 in the Weaving of **LOGLIFE** Blue Line Apron Duck ... The Looms

Our Crompton & Knowles Looms are the heaviest made for fabric construction. Only two of our looms are shown here and unlike most fabric looms, which are simply fastened to the floor on wooden blocking, these giants are anchored by long tie-bolts into bed-rock four feet thick, thus preventing any semblance of vibration.

Our Mill operates 3 eight hour shifts and it is necessary to have a maintenance man attached to each shift. These men are known as Loom Fixers and their responsibility is keeping the Looms in perfect running order, and after each Loom Beam is emptied, to carefully check all moving parts. Loom Fixers also function as inspectors of the duck coming off the Looms.

While these machines are capable of producing standard duck at the rate of about 40 yards per loom per 8 hour shift, we are forced to hold our production to about 25 yards per shift due to the exacting demands of our specifications which call for **LOGLIFE** Blue Line Apron Duck to be the finest, the closest woven and the heaviest apron duck on the American market.



Loom Fixer Attending  
Crompton & Knowles Loom

### THE TINGUE-BROWN POLICY

Recently a copy of a message that the late Mr. William J. Tingue wrote in June, 1940 was found and we quote parts of this message as we feel that this sentiment expressed therein gives us the key to his success and that of the Company he founded.

"The policy of our group has al-

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ways been to make each individual feel that he is a part of the whole; we choose those whom we may admit very carefully and as long as they justify our trust we welcome them as our associates and friends.

"Thus, through a long procedure has been built up a group of men and women who seem to be happy in their work and their lot; each realizing that after all their best friends are working right alongside of them. Each eager to give something towards the whole, proud of their endeavors, the reputation of their group, a standard of quality

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of service, fair dealing and justice, something attained—not as big as some, but better by standard and reputation than any other.

"In these days when the very civilization of the whole world seems to be broken asunder, is there not some infinitesimal spark deep in our hearts that gives us comfort in the realization that at least we have tried to do our best.

"A pretty picture presents itself—hard work, integrity and self-sacrifice have gained its end. We confidently assure ourselves of its continuance for many years to come."

William J. Tingue

THIS IS

TINGUE BROWN'S  
**LOGLIFE**

**APRON CLOTH**

The cotton is longer  
and stronger . . .  
the weave closer  
which means  
**less s-t-r-e-t-c-h!**

**TINGUE, BROWN  
& CO.**

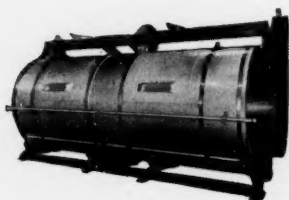
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Control Lines Reg. U. S. Pat. Off.

# KEYSTONE WASHERS

***You've Tried the Rest  
NOW Try the BEST***

## **HI-SPEED Keystone Efficiency Washer**



The "HI-SPEED" is an amazing new washer from the designing boards that produced the first successful Keystone gearless washer. Maximum efficiency, with minimum supply and water costs. Easy to maintain, trouble-free service, tested and proved in toughest comparison with competitive models. Fool proof cylinder doors.

## **NEW Improved Keystone Centrifugal Extractor**



Maximum safety and ease of operation, simple, sturdy construction, compact design, easily accessible—these are outstanding features for laundries and cleaning plants. Here's greater production, efficiency and economy—not a promise but a fact. Check this amazingly better extractor.

**Complete stock of used  
and rebuilt laundry and  
drycleaning equipment,  
cylinders and shells**

**Distributors  
of full line of  
PROSPERITY  
equipment**

**New Wood Washers, Re-  
placement Cylinders and  
Shells, Extractor and Re-  
built Equipment**

**TODAY—WRITE FOR FULL DETAILS**

# KEYSTONE


**Laundry Machinery Co.**

**413 N. Oswego St.  
Chicago 22, Ill.**

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# Standard of the Highway

# INTERNATIONAL



# TRUCKS

## One million on the road

A million trucks is an impressive number of trucks. It is even more so when you consider this fact: it represents more than half of the Internationals built in the past 44 years.

What proof could be stronger testimony that International Trucks are engineered to give you lower operating and maintenance costs

over a longer truck life?

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# INTERNATIONAL TRUCKS

**"Standard of the Highway"**



# PROGRAM

## 64th Annual Convention and Exhibit American Institute of Laundering

Stevens Hotel

Chicago, Illinois

October 19-20-21, 1951

### FRIDAY, OCTOBER 19

- 8:00 a.m. LCATA Breakfast, North Ballroom, The Stevens  
9:30 a.m. Exhibit, Main Exhibit Hall, The Stevens  
12:00 Noon Luncheon, Private Dining Room, 3rd Floor, The Stevens, National Council of Presidents and Secretaries, Board of Directors, Washington Activities Committee, and Council of Laundry Association Executives. Speaker, Edwin F. Wesley, O.C.R.  
2:00 p.m. Opening Convention Conference, North Ballroom, The Stevens, 3rd Floor  
Film: "The Fifth Freedom," Allegheny Ludlum Steel Corp.  
"The President's Report," Martin B. Romeiser  
"How to Get Better," Edward J. Hegarty, director of sales training, Westinghouse Electric Corp., Mansfield, Ohio  
"Presentation of President's Award to Past-President Fred W. McBrien"  
Address, The Honorable Alfred D. Sieminski, United States Congressman from New Jersey  
5:30 p.m. All Alumni Club Reception, West Ballroom, The Stevens  
9:00 p.m. Annual Dance and Entertainment, Grand Ballroom, The Stevens, Mezzanine Floor

### SATURDAY, OCTOBER 20

- 9:30 a.m. Exhibit, Main Exhibit Hall, The Stevens  
9:30 a.m. Sales Management Conference, North Ballroom, The Stevens  
Film: "A Professional Portrait," American Automobile Assn.  
"This Is the Way We Wash Our Clothes," William E. Mercer, manager, AIL department of sales and advertising  
Presentation of Advertising Awards  
"S-T-R-E-T-C-H-I-N-G Your Advertising Dollar with AIL's 1952 Advertising Campaign," Kenneth E. Lofgren, staff assistant, industry relations, AIL  
2:00 p.m. Government-Business Conference, North Ballroom, The Stevens  
Film: "Speaking of Rubber," United States Rubber Co.  
"What Washington Means to You," Harold K. Howe, manager, Washington Office, AIL  
"Your Government in Action," The Honorable Everett McKinley Dirksen, United States Senator from Illinois  
3:45 p.m. Ladies' Style Show and Tea, Marshall Field and Company, Narcissus Room  
4:30 p.m. All Alumni Club Business Meeting, Room 12, 4th Floor, The Stevens

- 5:30 p.m. Ohio Mechanics Institute Power Laundry Cooperative Course Alumni Association, Private Dining Room 4, 3rd Floor, The Stevens  
6:30 p.m. Presidents and Directors Club Annual Dinner. Reception, Private Dining Room 2, 3rd Floor, The Stevens. Dinner, Private Dining Room 1. Speaker: Rose Marie Kiefer, secretary-manager, National Association of Retail Grocers

### SUNDAY, OCTOBER 21

- 9:30 a.m. Exhibit, Main Exhibit Hall, The Stevens  
9:30 a.m. Meeting, Council of Laundry Association Executives, Private Dining Room 4, 4th Floor, The Stevens  
10:00 a.m. Sales Management Conference, North Ballroom, The Stevens, 3rd Floor  
Film: "Science Spins a Yarn," American Viscose Corp.  
"Hiring the Right Route Salesman," Dr. W. A. Eggert, chief psychologist, Lumbermen's Mutual Casualty Co.  
"Selling Laundry and Dry Cleaning Service Together," Henri Foussard, Model Laundry, St. Paul, Minn.  
"Promoting Business Country Style," E. F. Bishop, Bishop Laundry, Doham, Ala.  
12:00 Noon Luncheon and Meeting, NICD Alumni Society, West Ballroom, 3rd Floor, The Stevens  
12:30 p.m. Luncheon, Boards of Directors, AIL, LCATA, LDCMMA, Private Dining Room 1, 3rd Floor, The Stevens  
12:30 p.m. Luncheon, Council of Laundry Association Executives, Private Dining Room 12, 4th Floor  
2:00 p.m. Laundry Management Conference, North Ballroom, The Stevens, 3rd Floor  
Film: "Eternal Flame," the American Gas Assn.  
"The AIL Laundry Department," Ralph Yanke, manager, AIL laundry department  
"Costs Must Be Cut . . . How?," A. L. Christensen, manager, AIL department of production and engineering  
"Laundry Tickets—Manual and Mechanical Handling," James V. Scattergood, manager, AIL department of accounting and statistics  
"AIL Laundry Department Route Policies," William Bee, route sales supervisor, AIL  
Meetings of Council of Laundry Association Executives, Private Dining Room 12, 4th Floor, The Stevens  
5:00 p.m. Adjournment of Convention

**pull out**





MARTIN B. ROMEISER



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EVERETT M. DIRKSEN



## Outstanding Speakers to A

One of the finest groups of speakers ever to address a national laundry convention has been assembled by the ALL for the forthcoming convention and exhibit in Chicago on October 19-21. Keying their remarks to this year's convention theme—"Better Selling Means More Sales"—experts from the ALL staff, successful plantowners, and a sales training authority from outside the industry will give delegates the latest word on how to make and hold sales.

Also featured in addition to the convention's sales conferences is what promises to be an excellent government-business conference. U.S. Senator Everett M. Dirksen, Congressman Alfred D. Sieminski, and Harold K. Howe will bring laundryowners up-to-the-minute information on what Congress is doing, particularly as current legislation affects the laundry industry.



## Address Meeting in Chicago

A laundry-management conference with addresses by four executives from the AIL will present latest developments in the AIL laundry department, AIL laundry route policies, how costs may be cut by simplifying production methods, and a discussion of manual and mechanical handling of laundry tickets.

Monday, October 22, has been designated as "AIL Membership Day." On that day delegates are invited to visit AIL headquarters in Joliet, only 40 miles from Chicago. The entire staff will be present, and the magnificent facilities of the Institute and its plant—probably the best equipped laundry in the world—will be open for inspection. Be sure to take advantage of this unusual opportunity to see in actual operation the methods and ideas described in the convention sessions.



WILLIAM BEE



A. L. CHRISTENSEN



JAMES V. SCATTERGOOD



DR. W. A. EGGERT



HENRI G. FOUSSARD



E. E. BISHOP



RALPH YONKE

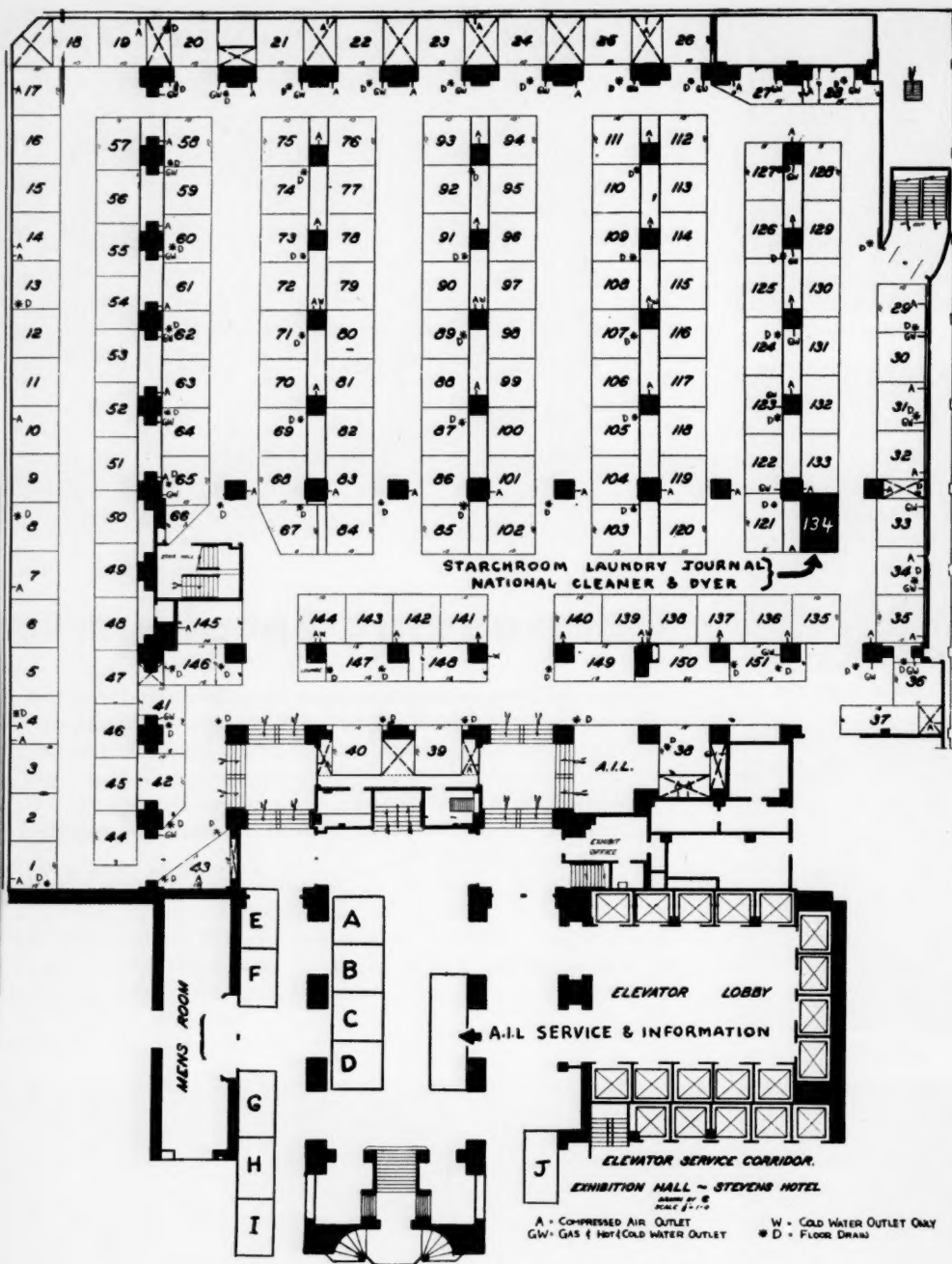


## LIST OF EXHIBITORS

EXHIBITOR	BOOTH NO.	EXHIBITOR	BOOTH NO.
AA-Laundry Machinery Co., 1110-12 S. Kedzie Ave., Chicago, Ill.	138	Boston Clip and Tag Co., 48 Grove St., Somerville 44, Mass.	2
W. M. Acker Organization, Inc., 3167 Fulton Rd., Cleveland 9, Ohio	55	Butler Mfg. Co., 7400 E. 13th St., Kansas City 3, Mo.	85
Addressograph-Multigraph Corp., 1200 Babbitt Rd., Cleveland 17, Ohio	14-15	Calgon, Inc., 323 Fourth Ave., Pittsburgh 22, Pa.	8
American Associated Companies, P. O. Box 4056, Atlanta 2, Ga.	11	Callaway Mills, Inc., 295 Fifth Ave., New York 16, N. Y.	28
American Hatters Supplies, Inc., 9 E. Harrison St., Chicago, Ill.	47	Cappel, MacDonald & Co., 307 N. Michigan Ave., Chicago, Ill.	23
American Laundry Digest, 21 W. Huron St., Chicago, Ill.	115	Carman & Co., Inc., 70 Summit St., Brooklyn 31, N. Y.	80
American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio	118-119	Carman Sterne Maley Co., 3604 S. Morgan St., Chicago 9, Ill.	21
Glenn L. Anderson, 3887 Bushnell Rd., University Heights, Ohio	43	Chandler Machine Co., West St., Ayer, Mass.	88
Armour & Co., 1355 W. 31st St., Chicago, Ill.	125	Chevrolet Motor Div., General Motors Corp., General Motors Bldg., Detroit, Mich.	42
Armstrong Machine Works, 816 Maple St., Three Rivers, Mich.	73	W. M. Cissell Mfg. Co., Inc., P. O. Box 1143, Louisville 1, Ky.	34-35
Atlas Powder Co., Zapon-Keratal Div., Wilmington 99, Del.	7	Cleaners Specialties Supplies Co., 6615 N. Fairfield Ave., Chicago 45, Ill.	45
Ayr-Mor Laundry Machinery Co., 6546 N. Sheridan Ave., Chicago, Ill.	51	Cleaning & Laundry News, 815 Wilmer St., Los Angeles 17, Cal.	48
Stuart Barl, Inc., 114 E. 32nd St., New York 16, N. Y.	13	Clear View Packaging Co., 2636 S. Michigan Ave., Chicago 49, Ill.	F
Benwell Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn 7, N. Y.	114	Clinton Foods, Inc., 1016 Wrigley Bldg., Chicago, Ill.	E
G. H. Bishop Co., 621 S. Kalmar Ave., Chicago, Ill.	148	Colgate-Palmolive-Peet Co., 105 Hudson St., Jersey City 2, N. J.	107
Bock Laundry Machine Co., Factories Bldg., Toledo 2, Ohio	132	Cook Machinery Co., 2220 Main, Dallas, Texas	33
		Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio	92
		Davies-Young Soap Co., 705 Albany St., Dayton, Ohio	96

EXHIBITOR	BOOTH NO.	EXHIBITOR	BOOTH NO.
Davis Mills, Inc., 211 Grant Ave., East Newark, N. J.	82	Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.	38
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio	100	Phoenix Products Co., 4715 N. 27th St., Milwaukee 9, Wis.	120
Dodge Div.—Chrysler Corp., P. O. Box 1259, Detroit 31, Mich.	25	Pittsburgh Tag Co., 1112-20 Galveston Ave., Pittsburgh 33, Pa.	109
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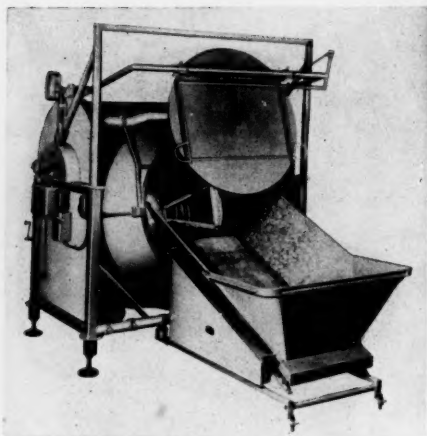
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# NOW The Purkett "72"

## Warms & Mellows

Yes, It's Heat Conditioned,

**YET IS NOT A DRYING TUMBLER**

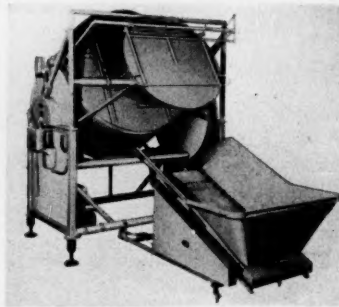
Heated to warm and mellow the goods while tumbling, produces softer, fluffier, warmer goods ready for ironing. While tumblers in the past have almost duplicated hand shaking, the addition of heat conditioning makes mechanical shake-out machines even more efficient than hand shaking. The mechanical action of the tumbler breaks up the tightly compressed cakes coming from the extractor. Warming the goods softens and mellows them so that the pieces straighten out by their own weight without hand shaking.

### FEATURES:

- Enormous Capacity
- Eliminates Hand Shaking
- Warms Tumbling Goods
- Automatic Reversing
- Unloads Without Choking
- Loads, Unloads Non-stop



Door closes cone opening to retain heat. Door opens automatically when operating unloading lever.



Door remains beyond sweep of cylinder until cylinder returns to loading position.

The 72 "Bigmouth" holds one-half load of a 54" removable basket type extractor in its tumbling cylinder and the other half in its big conveyor

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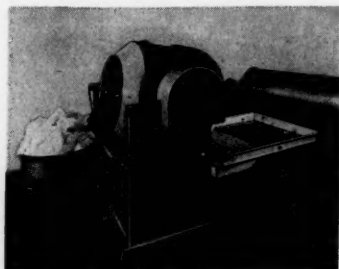
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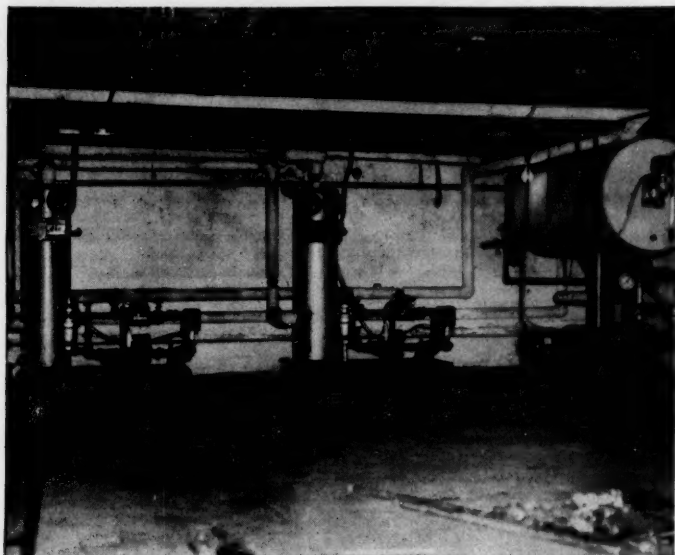
Keeps any one flatwork ironer busy to capacity. Eliminates many unnecessary movements in your flatwork production. Heat conditioning works miracles. Now mechanically tumbled goods are better conditioned than hand shaken goods. The most efficient tumbler on the market today with its 32" cone opening and large capacity. Holds up to 60 lbs. of small pieces—45 lbs. of sheets. Unloads maximum capacity of sheets without twisting or choking. Has all the same unique, labor-saving features of the "72." When you speed up the general operation of your laundry and save labor at the same time, you have a piece of equipment that certainly is a major factor in enabling you to show a profit in these times.

For complete details and specifications of both models 48 and 72, write to any major laundry machinery manufacturer or . . .

# PURKETT MFG. CO.

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Schaub Spray-Type Deaerating System for 75 H. P. load at Oriental Cleaners, Joliet, Illinois. Two Quik-Temp Heating Systems that handle all process equipment are also shown. No steam traps are used in this plant.

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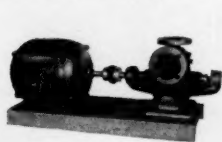


Schaub also builds Patented Heat-Reclaim and Spray-Type Deaerating Systems for exacting requirements from 10 to 1000 Boiler Horse Power. Write for new Schaub Catalog No. 55 which gives more information on all types of Schaub Systems.

Look at Schaub's three outstanding *exclusive features*. Check them point for point with your own experience. Then you'll realize how much more these *plus values* really mean...and why a Schaub System can actually give you more—in

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No more periodic pump maintenance! Schaub Master-Bilt Pumps have new Fleximatic Mechanical seals and permanently lubricated ball bearings. No more water puddles. No more scored shafts. No pump packing or greasing to do—ever!



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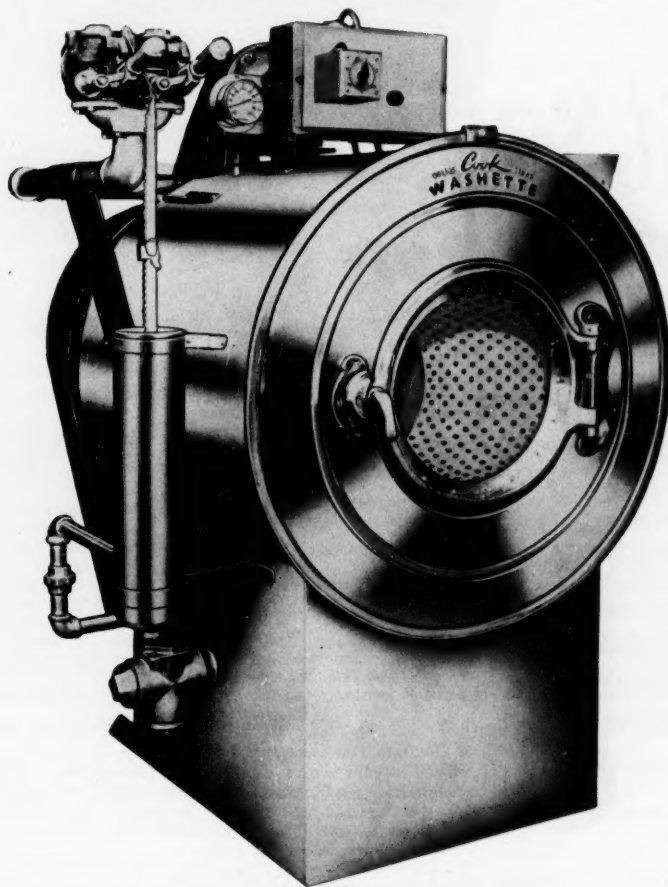


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If there's dust on it  
it may be  
precious scrap!

If it's  
SCRAP



it's needed to make **STEEL!**

One half of all the raw materials used in steel production is *scrap*. Today, the mills aren't getting enough iron and steel scrap to keep up with greatly increased steel production.

#### AND WHAT IS SCRAP?

Scrap is many things. Here are three:

1. the "left-overs" of iron and steel production, fabrication and machining.
2. junked autos and old farm machinery.
3. obsolete iron and steel equipment in factories, such as old machinery, tools, dies, jigs, fixtures, chain, valves, etc.

But—the "left-overs" are not great enough today to fill the unprecedented demands for steel production.

And, with replacements scarce, less junked autos and farm machinery have entered the scrap supply lines.

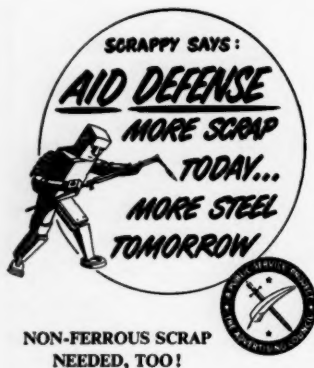
So—only by digging out all the never-to-be-used odds and ends of broken, worn-out, and obsolete factory equipment . . . can mills and foundries get all the scrap they need.

If they don't get it, steel production rates may be severely hampered . . . and our country's effort to maintain military strength and civilian economy at the same time, will be crippled.

#### It's YOUR Job to Furnish More Scrap

Institute a steel scrap salvage program in your plant. Appoint one top official in your company to take full responsibility. Have him consult with your local Scrap Mobilization Committee and local scrap dealers. The nearest office of the National Production Authority, Department of Commerce, can tell you who your local Scrap Mobilization chairman is.

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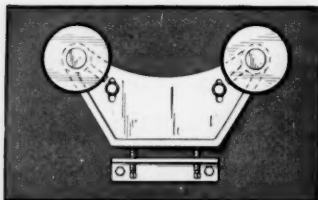
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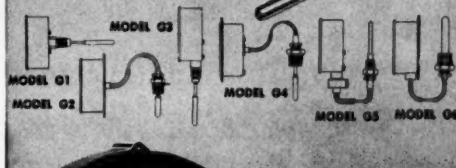
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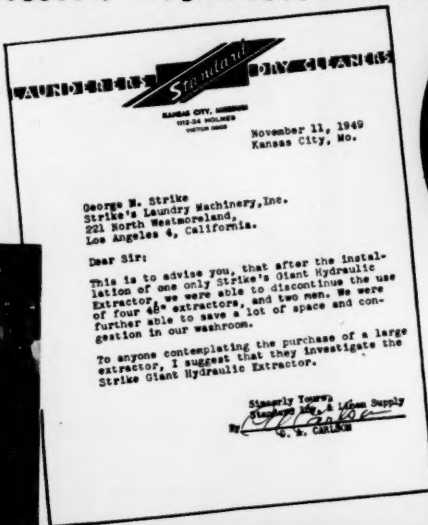
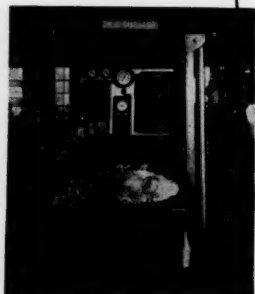

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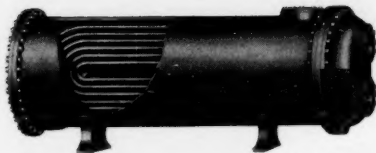
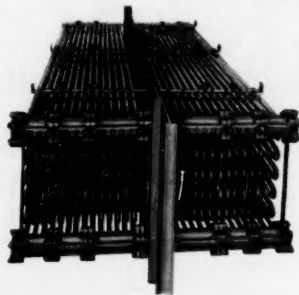


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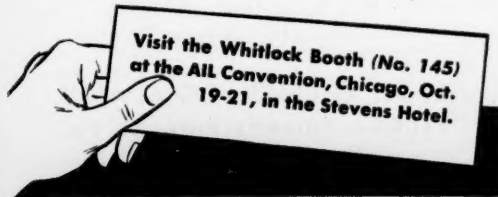
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## PORCELAIN RUSTPROOF CONTAINERS NOW HERE!

Patented SANI-TOP Diaper Cans are standard equipment with diaper services from coast to coast since 1936.

NEW SANI-TOP PORCELAIN PAILS ARE NOW A LIFETIME PAIL WITH REASONABLE CARE.

Painted and enameled pails rust and soon become junk . . . ruin diapers and bags with rust, no matter how many coats of enamel.

NO RUST STAINS ON BAGS AND DIAPERS IF YOU USE SANI-TOP RUST-PROOF PORCELAIN PAILS.

We make the patented SPRAY TYPE and CAMPHOR CAKE TYPE SANI-TOP Diaper Pails.

**We manufacture the "SOFTEY" DIAPER  
for DIAPER SERVICE.**

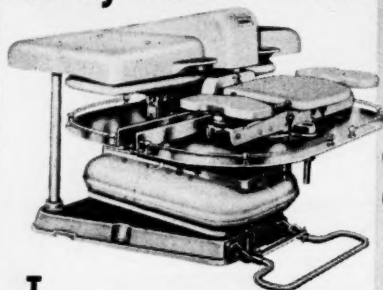
# SANI TOP

Tel: TRumbull 8-0010 R. D. 1, Sandy Hook, Conn.

# NEW, REVOLUTIONARY ONE-OPERATOR PRESS...

ACCLAIMED  
from COAST  
to COAST!

## Auto "TWIN-RAPID" Family Bundle Press



LOOK...  
NO HANDS!

Table automatically rotates by light touch on the foot bar. Thus, operator's hands are constantly free for laying.



USES "BUCKS"  
INTERCHANGEABLY

This versatile press can be set up with any combination of "bucks" . . . tapered, rectangular or twin sets.



LESS FLOOR  
SPACE REQUIRED

Actually, it's 3 machines-in-1... taking the place of ordinary units comprising 3 and 4 individual machines.



NO HEAT  
RADIATION

Insulated head retains heat . . . gives higher head temperatures . . . while reducing operator fatigue.

**T**HINK of it! One operator finishes a complete family bundle . . . AS MUCH AS 15 LBS. PER HOUR . . . and up! Here's the only press in the world—Yes, the only one—that gives you a completely automatic, ONE GIRL—ONE MACHINE OPERATION. A light touch on the foot bar and the TABLE AUTOMATICALLY ROTATES! No buttons to push . . . No gadgets . . . No levers—leaving the operator's hands entirely free to carry out the work of laying and unloading the "bucks." The Auto "TWIN-RAPID" Press is supplied with one set of twin "bucks" and one large tapered "buck." This versatile press can be set up with any combination of "bucks"—either tapered, rectangular or twin sets, making this press capable of handling a wide variety of work. Write today for complete details . . . or see your jobber.

★ Auto "TWIN-RAPID" also available in  
ONE-OPERATOR combination SHIRT PRESS

**LITTLE  
FALLS  
LAUNDRY  
says:**

"Attached is our order for ten additional  
AUTO TWIN-RAPID GARMENT PRESSES . . .  
This order is probably the most eloquent  
way in which we can express the satisfaction  
derived from these presses . . .  
Your equipment fulfills a long-felt need  
in the laundry industry!"

MAIL COUPON TODAY

Without obligation, please send complete  
information on the Auto "TWIN-RAPID"  
Family Bundle Press.

NAME OF FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_

YOUR NAME \_\_\_\_\_ JOBBER \_\_\_\_\_

JOBBER'S INQUIRIES INVITED

**AND LOOK!**

VISIT  
OUR DISPLAY  
A. I. L.  
CONVENTION  
Chicago, Ill.  
OCT. 19-21  
BOOTH "1"  
(that's "eye")

**RELIABLE** STEAM PRESSING  
MACHINERY, INC.

175-179 BERGEN STREET

NEWARK 3, N. J.

## SKIMMING ALONG!



**S**MOOTH GOING . . . all the way . . . and a smooth finish! That's the way flatwork rides through the ironer on Gilmer Feed Ribbons. And it's a one-way ride—no re-runs—saving time, work, money . . . producing wrinkle-free results and better finished bundles.

Gilmer Feed Ribbons are skilfully woven from the finest long-wearing cotton. Edges are perfectly straight, and thickness is uniform throughout. Gilmer Feed Ribbons come in all sizes, both endless and Clipper lace. Order a set from your supply house today.

BUY THROUGH YOUR GILMER DISTRIBUTOR

**Gilmer**  
FEED RIBBONS

More than 40 years' experience  
goes into every one!

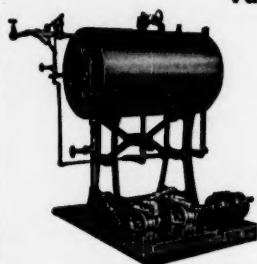
**L. H. GILMER COMPANY**  
TACONY, PHILADELPHIA 35, PA.

Division of United States Rubber Company

# BETTER BUY KISCO!

## The "Buy Word" of the Laundry Industry

You Get More from KISCO Equipment . . . More Value . . . More Satisfaction . . . More Economical Service!



**KISCO RETURN TO BOILER SYSTEM**

Reclaims BOTH high and low pressure condensation and feeds HOT make-up water to the boiler automatically. It assures both a uniform water level and steam pressure, plus protection. Write for catalog RRS-10



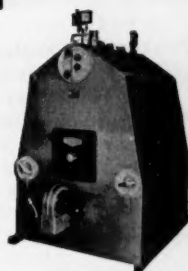
**KISCO "ARSO-SOFT" WATER SOFTENER**

Soft water prevents the formation of scale in boilers and pipes and reduces fuel costs due to free heat transfer. Also saves countless dollars in reduced soap costs. Sizes for every need. Write for catalog RWS-10



**KISCO "Q-T" HEAT RECIRCULATORS**

Powerful, ruggedly built Unit Heaters, constructed for high pressure operation. Motors are rubber mounted and have new, improved overlapping fan blades to assure quiet operation. Write for catalog RUT-10



**KISCO "STEEMATIC" VERTICAL BOILER**

"A-Type" vertical tubes give positive circulation and fast steaming. Refractory baffles give maximum heat absorption and reverse the flow of hot gases over the tubes. Sizes 10 to 60. Write for catalog RSA-10

Designers and Manufacturers of Boiler Room, Heating and Ventilating Equipment

**Kisco Boiler & Engineering Co.**

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**VISIT OUR BOOTHS IN CHICAGO**

A. I. L. Convention, October 19, 20, 21

STEVENS HOTEL • BOOTHS 63, 64

THIS  
**STRONGER**  
TAG MATERIAL  
can be a  
COST CUTTER  
for you

**CLEANSERTAG**

How? . . . simply because you will have lower garment replacement costs, lose less time in matching pieces, reduce the confusion and time lost when markings are illegible.

And those represent important dollar savings!

CLEANSERTAG is unusually strong, dry or wet. Tags stay firm all through processing — never shred or come apart. And markings stay sharp and clean. There's no curl or twist

either — tags are easily read from start to finish.

Of course, there's only one CLEANSERTAG. Insist on it. Never accept inferior substitutes.

WRITE FOR  
SAMPLES!

**HOLLINGSWORTH & VOSE COMPANY**  
EAST WALPOLE, MASSACHUSETTS

Please send me samples of your CLEANSERTAG, so I can test it in my plant.

Name.....

Company.....

Street.....

City..... State.....

# a 25 lb. SAMPLE of CHROMOTEX

## "the master rug cleaner"

- Dissolves quickly in hard or soft water.
- Has unique sanitizing and deodorizing properties
- Preserves the fiber and leaves the pile soft.
- Economical to use (we recommend 3 to 4 lbs. per 100 gals).
- Cleans quickly, including the fringes.
- Rinses readily.
- Can be used with rotary, oscillating brushes, or in the wash wheel.

WE ALSO MANUFACTURE "Neutrotone" a perfect shampooer for "on location" cleaning. Freshens colors, clarifies design and restores the natural finish. Releases and neutralizes soil quickly. Develops no rancid odor. Does not deteriorate the wool pile. Will not mar or spoil baseboard finish. Sanitizes and deodorizes. Insures repeat business in your slack season.

**CHROMOTEX sells for \$63.00 per 200 lb. drum (we pay the shipping charges)**

**IF NOT AVAILABLE THROUGH YOUR DISTRIBUTOR WRITE TO US DIRECT**

Send me the 25 lb. sample  
Enclosed is \$3.50 to cover packaging and shipping charges

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CITY \_\_\_\_\_

CHROMOTEX and NEUTROTONE formerly manufactured by Mathieson Chemical Corp.

Manufactured and sold by:

**ENDRISS CHEMICALS**

940 North Delaware Ave.  
Philadelphia 23, Pa.

# 40 Years of Continued Service

## To the Laundry and Dry Cleaning Field

Since 1911, the Hammond Laundry-Cleaning Machinery Company has spent 40 years of conscientious work in helping to advance the laundry and dry cleaning field through research and development of modern equipment.



Wm. S. Hammond  
President



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Roger N. Conger  
Secretary

**Hammond**  
LAUNDRY-CLEANING MACHINERY CO.

HAMMOND BUILDING WACO, TEXAS



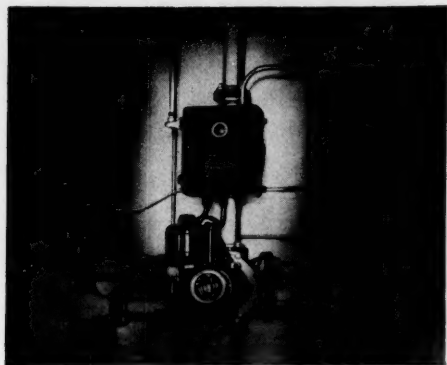
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## CONVERT TO

# Automatic Controls



**PRODUCE** a constant supply of zero-soft water

**SAVE** operator's time . . . lower operating cost

**PROTECT** your equipment from hard-water scale

These new automatic valves and controls are easily installed on your present water-softening equipment.

Automatic operation completely removes the human element from regeneration, saves costly man-hours of labor and maintenance.

### ECONOMIZE WITH PERMUTIT'S NEW ZEOLITES

Replace your present mineral with one of Permutit's new, high-capacity zeolites.

They produce up to ten times as much soft water, 50% faster than previous minerals. They last longer between regenerations, lowering operating costs. They save you salt.

Write for further information to The Permutit Company, Dept. SL 10, 330 West 42nd Street, New York 18, N.Y., or to Permutit Company of Canada, Ltd., 6975 Jeanne Mance Street, Montreal.

# PERMUTIT®

WATER CONDITIONING HEADQUARTERS FOR OVER 38 YEARS



## AIR COMPRESSORS

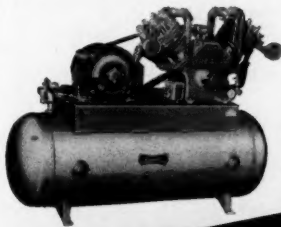
### Designed Specifically for LAUNDRY USE

● The "L" series Brunner Air Compressors have *proven* their right to preference by the dependable, efficient work they are doing in laundries right across the country. Brunner compressors reflect an understanding of what laundry men need and want in air supply. Every Brunner feature reflects nearly half a century experience in successfully applying compressed air to specific uses.



### 14 MODELS

Horizontal and vertical styles from 1/4 hp to 15 hp. From .87 to 72.5 CFPM free air at 80 lbs. Tank sizes from 20 to 120 gallons.



Brunner literature could be worth plenty in the hands of a man who likes to know just what he is getting for his equipment dollars. We'd like to send it to you. Fill in and tear off this part of the page, then mail it to Brunner Manufacturing Company, Utica 1, N.Y., U.S.A.

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### AIR CONDITIONING

Self Contained Units in 4 sizes:  
3-5-7 1/2-10 HP.  
Remote Installation Types from 3 to 75 HP.  
Literature also on request.





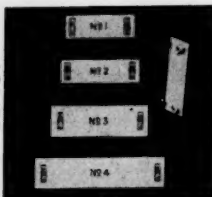
## TAGS of Quality—Durability

Quality is assured by best materials and workmanship. Durability results from non-fraying 80x80 count cotton cloth and high grade zinc staples, pliable, and anchored for strength. *Special Finish* gives best writing surface for hand or machine marking.

### PEERLESS BEACON TAGS

Triple-fold 80x80 count cotton cloth, non-fraying. Special finish for easy writing with pen or machine marking. Staples are anchored, always firm with prongs straight, yet fully pliable for quick attaching and removing. Also fibre. 5 sizes in White and Standard Colors.

Also Half Tag cut straight or diagonally; Single Staple Tags.



### A B SOCK TAGS

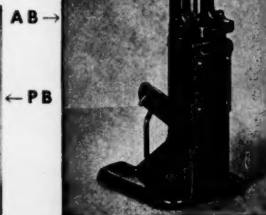
Made so water or cleaning fluid can wash in and out of tags. All metal edges durably covered with strong cotton cloth with easy writing surface. 80x80 count cotton cloth, unless fibre specified.

A B No. 1—Size  $\frac{3}{8}$ " x  $\frac{3}{8}$ "  
A B No. 2—Size 1" x  $\frac{3}{8}$ "



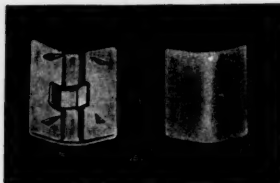
### TAGGING MACHINES

Attach tags to garments faster than by hand—saving time, labor and money. Machines operate easily, simply. Two machines for attaching A B Nos. 1-2 Tags; Four machines for attaching Peerless Beacon Nos. 1-2-3-4 Tags. (No. 4 Machine used for Half 5's).



### NON X L TAGS

For heavy work, use this open type tag with large prongs. Pliable for quick attaching and removing. Easy marking surface. In all standard colors—but one size only. 80x80 count cotton cloth.



- ACE of SPADES intense jet black high quality indelible INK
- REDUX Indelible Ink Remover
- EZ-OFF Iron Cleaner

Write for descriptive detailed circular.

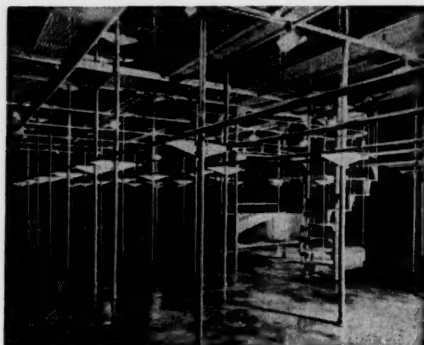
All Fully Guaranteed



## OVER 1/3 OF THE A. I. L. PLANTS NOW HAVE A FUR STORAGE DEPT.\*

HAVE YOU LOOKED INTO THIS PROFITABLE SIDELINE FOR YOUR OWN PLANT?

\* From Ross Federal Research Corp. Survey, July 1950



Multiple tier installation with walkways, stairways and hoist.

**T**HE Market Forge Company, originators of Standardized Storage Rack Equipment with the "MAFORCO" trademark provides a Free Consultation Service to answer your fur storage problems. Without obligation—our engineers will come into your plant, analyze your equipment needs so that you will have the best proper arrangement of racks for the number of garments stored.

### FEATURES OF FUR GARMENT MAFORCO STORAGE RACK EQUIPMENT

- Utmost Simplicity
- Economy of Arrangement
- Low cost of Equipment and Installation
- Allows for Rearrangement or Relocation to Suit Changing Requirements
- All Parts Well Finished (No injury to garments)
- Simple Loading and Unloading
- Parts Not Attached to Building—Planned to be Self-supporting
- Equipment Not Galvanized After Fabrication—a satisfactory proven finish

WHETHER YOU ARE PLANNING TO INSTALL A COMPLETE NEW STORAGE DEPARTMENT OR ADD HOIST INSTALLATIONS—MULTIPLE TIER OF WALKWAYS—WRITE US FIRST FOR COMPLETE INFORMATION—OUR CONSULTING SERVICE DIVISION IS AT YOUR DISPOSAL

Complete line of accessory and allied equipment available including Garment Trucks, Muff Racks, Rug Storage Racks, Packing Tables.

Write us—it will be worth your while.

## MARKET FORGE CO.

EVERETT 49

MASSACHUSETTS

THOUSANDS NOW  
IN USE IS A GREAT  
RECOMMENDATION

## High Speed — Safety Equipped WESTERN Extractors



Western Extractors are faster, yet are safer and easier to start and stop. New design cuts vibration. All parts are corrosion resistant.

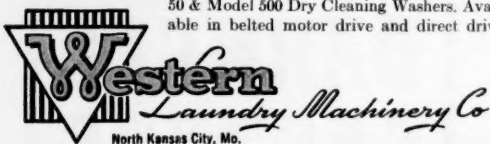
### WESTERN SAFETY FEATURES

Each Western Extractor is equipped with an interlocking safety device on the cover that makes it impossible to start the machine when the cover is open, or lift the cover when the basket is in motion. The motor is explosion proof for complete safety in dry cleaning plants. Foot operated brake brings the self-balancing basket to a gradual stop.

### A SIZE TO FIT YOUR WASHER

Western Extractors are available in 20", 26", and 30" sizes in both laundry and dry cleaning types.

Write today for free circular of Western's Model 50 & Model 500 Dry Cleaning Washers. Available in belted motor drive and direct drive.



### WESTERN LAUNDRY MACHINERY CO.

10th and Fayette, Dept. 3L North Kansas City, Mo.

Please forward complete information on

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City \_\_\_\_\_ State \_\_\_\_\_



... that's  
**REVOLITE**  
REG. U.S. PAT. OFF.



The famous REVOLITE written guarantee is your assurance of outstanding service from REVOLITE Roll Covers—better performance and durability than any roll cover on the market today. What's more, REVOLITE Roll Covers are installed free of charge.

More and more leading commercial laundries—hospital and institutional laundries, too—use REVOLITE to get quality work every time at lower cost. REVOLITE Roll Covers boost equipment performance . . . eliminate frequent shut-downs for roll changes . . . speed your operations. High-heat capacity means hotter, dryer rolls . . . protects the padding for the life of the cover.

With REVOLITE Roll Covers you get quality work every time—smoothness and beauty that means customer satisfaction.

Write or phone for complete information about REVOLITE Roll Covers and a copy of the REVOLITE Guarantee.

**ATLAS** POWDER  
COMPANY  
Stamford, Connecticut



Service from every angle  
... that's **REVOLITE**  
REG. U.S. PAT. OFF.

## SAVE MONEY INSURE GARMENT SAFETY

with the Arrow P-22 Hand Stapler



Laundries and dry cleaning plants lose thousands of dollars each year through faulty methods of attaching identification tags to items.

Prevent loss of items . . . **SAVE MONEY** in your own plant by attaching tags the **SAFE, SURE** way—with the **ARROW P-22 Hand Stapler**. Just **REACH** and **SQUEEZE** . . . **PRESTO!** Tags are stapled securely to garments. This is your insurance against garment loss.



The P-22 Hand Stapler is a handy timesaver for other plant fastening jobs like attaching invoice slips to bags, sealing packages and garment bags and securing shoulderettes.



Clip This Coupon and Mail

Gentlemen:

- ☐ Have a supplier get in touch with us  
☐ Send us full particulars on your jobber set-up

Name \_\_\_\_\_

Firm \_\_\_\_\_

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City \_\_\_\_\_

Zone \_\_\_\_\_ State \_\_\_\_\_



**ARROW FASTENER CO., INC.**

BROOKLYN 6

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## Keep Ahead with



## DARNELL CASTERS

Choose just the right caster or wheel for your needs from the Darnell line of nearly 4000 types. These precision made casters and wheels will help you speed up production . . . will pay for themselves many times over.

### FREE MANUAL

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# THE MARK RECORD SHEET

is a great check against inaccurate marking. Records the marks used in all bundles; permits location of lot for all marks.

Used for years by hundreds of laundries

Prevents duplication of marks;  
Avoids mixup of garments;  
Aids and simplifies sorting;  
Used in any marking system;  
Precludes thievery.

PRICE per thousand . . . . . \$7.50  
5,000 or more, per thousand 6.50

SAMPLES FREE (All shipments C.O.D. unless check accompanies order.)

## STARCHROOM LAUNDRY JOURNAL

304 EAST 45th STREET  
NEW YORK 17, N. Y.

# THE ONLY automatic MARKING PEN using BLEACHPROOF LAUNDRY INDELIBLE INK

## INDEL-O-MARK Automatic INDELIBLE FOUNTAIN PEN

### SOLVE YOUR MARKING PROBLEMS

with the exclusive INDEL-O-MARK Automatic, designed for dependable and speedier marking. The only indelible automatic marking pen developed by engineering research for use with super-permanent indelible ink and for marking textiles and tags.

### YOUR HANDS NEVER TOUCH INK

Automatic and exclusive operation. Fills in 10 seconds without fuss or mess, mess or guess. Indelible ink cartridge stays sealed until inserted in pen. Can't spill, soil, stain or spoil.

### ECONOMICAL—EFFICIENT

No moving parts to break down or corrode. Point is precision hand-tooled to one-ten-thousandth of an inch. Writes smoothly on any textile, tag or similar absorbent surface.

### SAVES TIME—MONEY, ELIMINATES LOSSES

No messy ink bottle, ink well or dropper. Simply insert a sealed cartridge and mark—PATENTED CHANNELIZED INK FLOW insures clean, steady, dependable marking.

### AMAZING ECONOMY

Each INDEL-O-MARK cartridge gives you as many as 23,000 marking letters for less than 10¢—an amazing economy that should be compared with any other pen on the market.

### CAN'T FADE

INDEL-O-MARK Indelible Ink has been used and approved by many thousands of Laundries, Cleaners, Institutions and Government agencies over a period of 15 years.

It is guaranteed for any dry or wet cleaning and for any laundry washing or bleaching process. INDEL-O-MARK INK IS SUPER-PERMANENT.

- Sold with a lifetime guarantee.

### THE MARK-O CORP.

17 West 60th Street  
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\$10.00

in Polished Aluminum including 3 cartridges

Kindly send . . . . . Automatic Indel-O-Mark pens @ \$10.00  
. . . . . boxes of cartridges (24 in box) @ \$2.35  
☐ Check Enclosed ☐ Send C.O.D. (postage collect)

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NAME \_\_\_\_\_

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A Box of 24 Cartridges \$2.35

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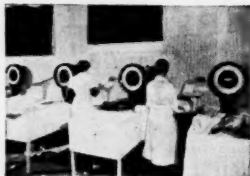
**PRINTED WEIGHT**  
36

**PRINTWEIGH STOPS ERRORS**

For closer cost control in your laundry—Toledo Printweigh Scales provide printed weight records... assure you that the accurate indication of the Toledo dial will reach your accounting records... on thick tickets... on large or small sheets... on strips... with extra copies. Saves time, stops losses throughout your laundry—for receiving, breaking table production weighing to washers, weighing of finished items. Send for bulletin 2021 on modern weight control. Toledo Scale Company, Toledo 1, Ohio.

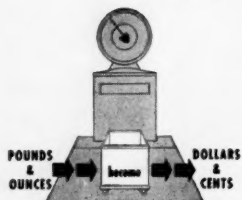


PRINTED WEIGHTS . . . RECEIVING



WEIGHING AT BREAKING TABLES

## LAUNDRY becomes MONEY on your SCALES!



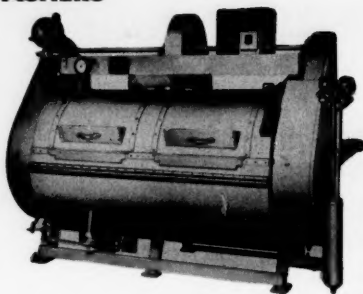
Errors made at the scale stay wrong forever. There is no chance to recheck, either because the laundry has been delivered to the customer or has proceeded to other steps in the laundering process. Weigh it right with Toledo Printweigh for accurate weights accurately recorded!

*Guard Costs with*  
**TOLEDO**  
*All the Way*



## WASHERS BUILT TO YOUR NEEDS!

### LAUNDRY WASHERS



- ★ Available in Stainless Steel or Wood in Any Size required.
- ★ Belt driven or motor driven.
- ★ Ball Bearings throughout on all rotary parts.
- ★ Special Heavy Duty Adjustable Packing Glands.
- ★ Solution can't leak out through bearings.
- ★ Safety Door Switch.
- ★ Heavy Duty type motors for reversing washer service.
- ★ Welded Cylinder and Shell.

### DRY CLEANING WASHERS



- ★ Heavy Duty All Metal Washers with Maple Unloading Shelves.
- ★ Motor driven or belt driven.
- ★ Special heavy duty adjustable packing glands.
- ★ Solution cannot leak out through bearings.
- ★ Heavy duty locks and keepers, adjustable to keep doors rigidly in place to prevent tearing of clothes.

*Sold By Leading Distributors In Principal Cities*



**LAUNDRY MACHINERY CO.**

1112 So. Kedzie Ave. Chicago 12, Ill.

# RELIABLE LUSTERETTE

A "MUST" FOR ANY PLANT THAT HANDLES FURS!

- It's the Only Truly Portable Fur Ironing and Glazing Machine
- Just plug in and use; no overhead trolleys, tracks or shafts.
- Can be used in any position.
- Portable, light, compact.

LUSTERETTE, Model L-50, Patent No. 1,979,030. (Wt. 7 lbs.)  
Price is FOB, Brooklyn, N. Y., \$197.50



RELIABLE also offers a complete line of Fur Cleaning & Fur Storage Equipment. Estimates furnished upon request at no cost or obligation. If you are planning a Fur Storage Vault, do it the Reliable way.

Meet us in Booth 144 at the A.I.L. Convention in Chicago October 19-21

RELIABLE FUR STORAGE EQUIPMENT CO. DIV.



RELIABLE MACHINE WORKS, INC.

233 EAGLE STREET BROOKLYN 22, N. Y.



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✓ **Order Benwall**

PIONEER

2x2 NYLON NETS

100% DuPONT FILAMENT NYLON

NYLON PRESS CLOTH

100% DuPONT FILAMENT NYLON, SMOOTH

BLACK NYLON TAFFETA SUZY CLOTH

NYLON FLAT WORK IRONER TAPE

IRONER FEED RIBBONS  
ALLIGATOR LACING

NYLON SHROUD LINE *Used as Draw Cords*

BUY BETTER.....Get more with BENWALL products.....you'll save money.

ORDER FROM YOUR JOBBER TODAY

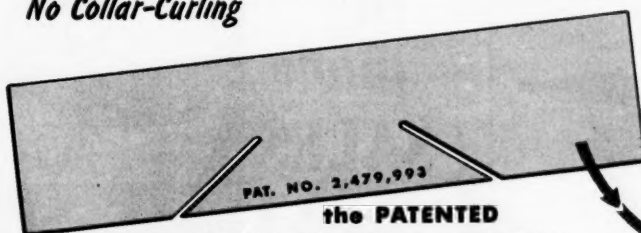
MANUFACTURING CO., INC.

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**Benwall**

## Collar Supports Inserted UP TO 400% FASTER

*No Collar-Curling*



the PATENTED  
**GLENN ANDERSON COLLAR SUPPORT**

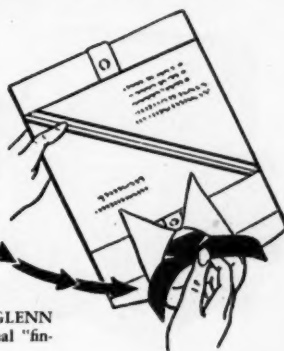
You get a solid shirt collar-point support plus firm neck band protection with exclusive GLENN ANDERSON's. There's no curling or crushing. . . GLENN ANDERSON'S give a final "finished" touch that keeps customers satisfied . . . and keeps them as customers. And, they are a production saver for you too,—up to 400% faster . . . no unnecessary handling. These are the famous collar supports used regularly in sport shirts produced by Marlboro and McGregor. Send coupon below for samples and special introductory prices.

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A.I.L. CONVENTION

**HOWE PAPER CORP.**

670 Young Street

Tonawanda, N. Y.



## SEND FOR SAMPLES

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Tonawanda, N. Y.

Please send Glenn Anderson samples and special introductory prices.

Name

Street

City  State

Attention of

# CHANDLER Sewing MACHINES

for  
BUTTON SEWING  
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BLIND STITCHING AND  
PLAIN SEWING.

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illustrating and describ-  
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MACHINE COMPANY  
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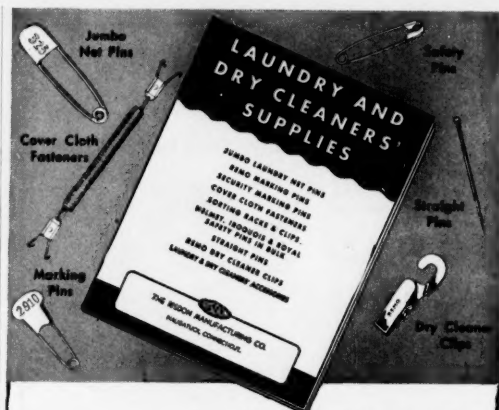
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dealer for  
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**RISDON  
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Have the complete Risdon-Remo line  
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And don't forget the three star fea-  
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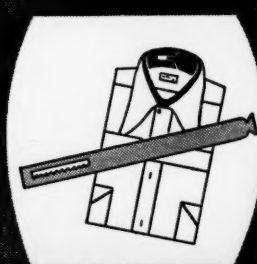
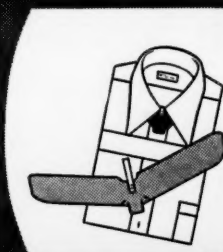
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more  
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X-PANDO*

COLLAR SUPPORTS  
**YOURS  
FREE**

Send today  
for our Collar  
Support Book-  
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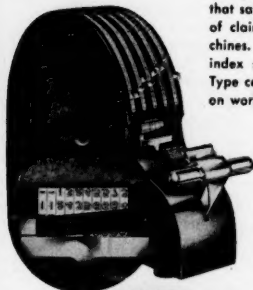
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Today it's the  
*Ribbonized Way!*  
The  
**RIBBON-  
RITE**

**MARKING MACHINE  
For LAUNDRIES**

Prints thru a Ribbon and is Always Ready! Fast, clean, accurate marking that saves time and eliminates the cause of claims. 6-, 8-, and 10-character machines. Easy-to-read black on yellow index strips. Clean, indelible marking. Type cannot fill in. No smudges or blots on work in process.



Special wash-out ribbon for marking at wet assembly. Long ribbon life assured by patented diagonal ribbon feed.

Makers of TAG-O-MATIC, tag-making-and-marking machine for drycleaners.

Wire or write for folder or demonstration.



© 1951 Textile Marking Machine Co., Inc.

**PULVOAX insures  
SMOOTHER  
ironing!**



Shakes on easily and evenly because it's finely powdered!

No waste! No caking! No carbonizing! No build-up scale! No need to stop ironer for spot waxing!

Meets all waxing requirements at high or low ironer speeds. A compound of hard, imported vegetable waxes!

Gives smooth, uniform finish! Insures longer wear for aprons and cover cloths! For greater efficiency . . . for economy, try the original PULVOAX!

Order from your jobber, or direct.

1 lb. - 5 lb. - 25 lb. - 100 lb. pkgs.  
80¢ lb. 75¢ lb. 70¢ lb. 65¢ lb.



**LEWIS NATIONAL Corp.**  
29 Sleeper Street, Boston 10, Mass.

Laundry and Dry Cleaning Machinery and Supplies

**TANK  
TROUBLE?**

**DO YOU HAVE IT?**

Leaks that stop work or damage your plant can happen to you. We repair and cementize all kinds of tanks—metal or wood, oil or water, hot or cold also filter or water softening tanks.

We remove all rust and scale, repair weak spots and holes, then apply a lining of CIMCO, placing the tank back in service within a few hours—and with a GUARANTEE.

Think of the Time and Money this Saves over the purchase and installation of a new tank.

CIMCO—completely protects the metal against rust and corrosion.

(20,000 satisfied customers)

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715-717 East 136th St., New York 54, N. Y.

Tel.: CYPRESS 2-1160 - 61 - 62

S1051

Gentlemen:

Send me complete details on CIMCO, with no obligation to me.

Name.....

Address.....

City.....

State.....

Zone.....

Tank Size and Type.....

Signed.....

**p-k**

## CONVERTS HOT WASTE WATER TO COLD CASH

If your laundry has been dumping hot waste water directly into the sewer, a large part of your potential profit is disappearing with it!

Economy-minded laundries have plugged this leak with **p-k** waste water Heat Reclaimers. Reward: A 30% average fuel savings, one-third reduction in boiler load, or sufficient capacity to operate extra wheels or other steam equipment. Easily installed in any out-of-the-way space.

Let **p-k** reclaim valuable heat from your waste hot water. It's one investment that will pay for itself within one to two years.

Write for the **p-k** Reclaimer Bulletin... as well as the companion Hot Water Heater Bulletin.

the

**P**
**Patterson-Kelley Co.,**

 45 Warren Street, East Stroudsburg, Penna. **INC.**

# EXZYME

**BRAND NEW PROTEIN DIGESTER  
GIVES YOU**

**50% MORE FOR YOUR MONEY**

At last, here is a great new spot remover that saves you money! A pound of EXZYME makes a full 60 gallons of hard-working solution. That's about 20 gallons more than ordinary digesters make!

Try EXZYME yourself! Field tests prove—You'll save time—save money—and do a better job!

### 10 GREAT EXZYME ADVANTAGES!

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|--|-------------------------------|
| ★ Stays fresh                                    | ★ Easily flushed              |
| ★ Smells sweet                                   | ★ Safe as plain warm water    |
| ★ Remains active longer                          | ★ Dissolves instantly         |
| ★ Faster acting                                  | ★ Works in hard or soft water |
| ★ Efficient in bath, on board, in stock solution | ★ Saves you money             |

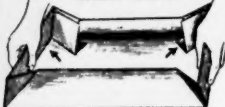
Get EXZYME by the pound or the case from your local jobber or write to:—

### PABST SALES COMPANY

Industrial Products Division  
221 North La Salle Street  
Chicago 1, Illinois

## The Modern Way To Package Shirts at a Savings

### CENTURY QUIK-LOK SHIRT BOX



JUST FLIP OPEN THE ENDS—  
IT'S READY!

- **SAVES TIME**—no corner locking
  - **SAVES SPACE**—eliminates stacking
  - **SAVES MONEY**—reduce labor costs
  - **STAYS CLEAN**—in corrugated boxes
- Made in Many Sizes to Suit Your Packaging Conveniences

### QUIK-LOK COLLAR SUPPORTS



white stock

PERFECTLY DESIGNED

Really stays put—will not pull out.  
Prevents crumpled and mashed collars.  
Simple to use—FAST!

See our Booth #20 at AIL Convention

Our complete line of laundry and drycleaning packaging supplies includes:

- Magic-seal shirtbands
- Shirtboards
- Printed and plain garment bags
- Shirt envelopes
- Dress shields

FOR INFORMATION  
AND PRICES WRITE:

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Chicago 12, Ill. • NEVada 2-3151

SAYS THE FAMOUS  
STADHAM "COVER" GIRL—  
"When It Comes To  
PRESS COVERS—  
Come To Stadham!"



**STAD-SPUN-D PRESS COVERS**  
All Nylon, non-slip! Soft as a handkerchief! Rugged as a tent! Ideal for dry cleaning presses! Unconditionally guaranteed 3 full months on Dry Cleaning Presses! ALSO FINE FOR LAUNDRY PRESSES!

**STAD-SPUN PRESS COVERS**  
Made of SPUN NYLON specially treated to insure longer wear. Non-slip surface guarantees better production and a finer finish. Made to fit every style and model of shirt and wearing apparel press.

**STAD-TEX PRESS COVERS**  
An all filament Nylon cloth for covering presses. For use where slick finish helps production. Specially treated by an exclusive Stadham process which increases heat and abrasion resistance.

**PHONE, WIRE  
OR WRITE  
FOR NEAREST  
DISTRIBUTOR**



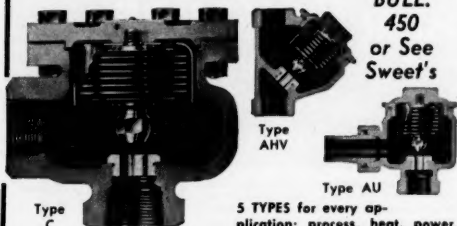
**STADHAM**  
COMPANY, INC. • HEXAGON DIVISION  
1825-31 NORTH 20th STREET PHILA. 21 PA.



## HEATS UP DRYERS IN $\frac{3}{4}$ LESS TIME

with Nicholson Steam Traps

A leading processor reports that, after switching to Nicholson traps, they get a huge dryer up to heat in 1 hour vs. as long as 24 previously. It is Nicholson's remarkably faster heat transfer that is enabling many operators to heat up ironers, presses, dryers and water heaters in 15 min. Nicholson features: operate on lowest temperature differential; 2 to 6 times average drainage capacity; maximum air venting. Sizes,  $\frac{1}{4}$ " to 2"; press, to 225 lbs.



BULL.  
450  
or See  
Sweet's

Type  
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Type  
AHV

Type AU

5 TYPES for every application: process, heat, power.

**W. H. NICHOLSON & CO.** 185 OREGON STREET  
WILKES-BARRE, PA.

Sales and Engineering Offices in 53 Principal Cities

ORDER  
TODAY  
FROM YOUR  
SUPPLY  
HOUSE

BETTER WORK • BETTER PROFITS

with **BETTER PRODUCTS**

STOP COSTLY LEAKS  
with SPEEDY PIPE SEALS!

Sold as a  
handy kit,  
sizes  $\frac{1}{2}$ "  
to 2", plus  
Clamp.

First aid for leaks in steam, gas, air or water lines. A size for every pipe. Mends instantly! Easy to use! No plumber's bill—No costly shutdowns. Users stock Speedy Seals for emergencies... for leak stoppage in seconds.

ORDER A LOW COST SET TODAY!

QUICK IDENTIFICATION With the New, Brilliant-Colored

**PERMA-NET MARKERS**

EIGHT EASY-TO-READ COLORS

Designed for easy handling. Spare Markers spin on pin, will not wear out or tear out! Colors Black, Blue, Brown, Green, Orange, Red, White and Yellow for every classification. Get quick low-cost identification! Order a supply today!

ORDER FROM YOUR LOCAL SUPPLY HOUSE

WITH

BETTER FINISH • ECONOMY • SPEED

**New LUB-N-WAX**

- New Lub-N-Wax resists caking! Lubricates at high ironer speeds. Ideal for "spot" waxing without stopping ironer.
- Adds life to aprons and covers. Does not carbonize or build up scale. The economical, perfect, easy-to-use wax!



**THE SPEARE CO.**

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CHICAGO, ILLINOIS



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You could use man-hole covers, temporarily, or Cleve-O-Cement for a permanent job. Cleve-O-Cement is easy to apply. Using ordinary tools, any handy man can patch the floor in a jiffy. Cleve-O-Cement dries flint hard overnight — 28 times harder than ordinary cement. Waterproof, slip-proof, withstands cold, moisture, steam and fruit and dairy acids. Used by meat and food packing plants, dairies, laundries, bottling plants.

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DRY CLEANERS, LAUNDRY OWNERS SAY

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really save work...  
move jobs faster!"

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HAMPERS, TRUCKS**

Built for years  
of service!

**MEESE, INC.**

Main Office & Plant  
MADISON, INDIANA

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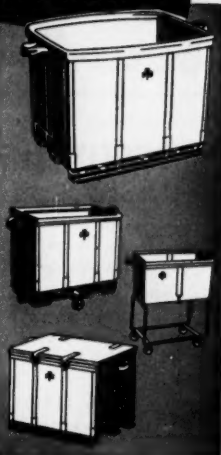
New York—37 W. 43rd St.,  
MU 2-1437

San Francisco—  
c/o Glenn B. White & Assoc.  
Merchandise Mart  
ME 1-5204

Los Angeles—  
c/o Glenn B. White & Assoc.  
1151 So. Broadway  
PE 4169

Atlanta—  
4403 Jefferson St.  
Chamblee, Ga.  
Chamblee 2430

Chicago—  
R. M. Thorson  
1400 Lake Shore Drive  
Whitehall 4-4180



*Ask Your Jobber for the New Miracle*

## Carson SPUNYLOX NET

**100% DUPONT NYLON**

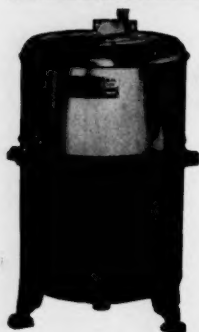
- LOOKS LIKE Cotton!
- FEELS LIKE Cotton!
- WEARS LIKE Iron!

*Economical!*  
SOFT AND EASY TO HANDLE  
SIDES & BOTTOMS WOVEN TUBULAR

*Write for Descriptive Literature*

**CARSON TEXTILE CO., INC.** 7401 15 S. WATER STREET PHILADELPHIA 48, PA.

Made by the manufacturers of LONGBOY. "Do not cotton laundry net made" and backed by more than 25 years of laundry textile "know-how"! If your jobber cannot supply you, write to us.



## BOCK EXTRACTORS

The most efficient time and money saving Extractor on the market.  
Made in 15", 17" and 20" sizes.  
*Send Us Your Inquiry.*

**BOCK**  
LAUNDRY MACHINE CO.  
TOLEDO, OHIO

## A NEW PLATE

*makes your old press finish like a new one*

**DAVIS Fabric-Renewing PRESS PLATES**

The burred surface lifts the nap and renews the fabric!

All models up to 46" . . . \$14.85  
Mushroom models . . . \$11.00  
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**Davis**  
SPECIALTIES, INC.

ORDER FROM YOUR SUPPLIER TODAY!

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These articles contain the necessary step-by-step information (with accompanying photographs) to aid your repair department to more "Profitable Alterations."

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All-welded Portable with firebox for refractory lining and fuel-conserving 2-pass tubes.  
A Q-u-i-c-k Steamer.  
6 sizes, 50 to 150 H.P., 125 and 150 lbs. W.P.  
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**KEWANE BOILER CORPORATION**  
KEWANE, ILLINOIS  
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## Instant MOISTURE

*When You Want It...Where You Want It*

### Dryco E-Z SQUEEZE WATER SPRAY GUN

World's finest, fastest, water spray gun. Famous for 20 years. More in use than all others combined. Hangs with spray and down. No fumbling for trigger, just reach, squeeze, get instant spray. Swings out of way when released. Long-lasting, trouble-free. Gives far more finishes per hour. Pays for itself, then pays you.

*Order Now from your supplier...*

**Dryco CORPORATION** OFFICIAL CHICAGO 24 ILLINOIS

MODEL P—with 6 ft. hose, coupling, valve, suspension spring . . . \$9.95  
WE ARE OUR DISTRIBUTOR

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### SOAP BUILDER SOAP EXTENDER WORK IMPROVER

*Favorite with quality Launderers  
for past 10 years.*

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*Division of The Kinsley Chemical Co.*  
4538 West 130th St., Cleveland 11, Ohio

## What's Your Truck Doing All Day?

### This Device Tells Every Move the Truck Makes!

Idle time—busy time—day and night (and overtime, too!)—all on a waxed chart (see at left). Here, for example, is a 2-hour delay, and you can put your finger right on it!—and then correct it!

Over 100,000 trucks now equipped. Write for booklet: "Ten Ways of Getting More Work Out of Motor Trucks."

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## THE SERVIS RECORDER

Keeps Trucking Busy

## how to change

# COMPLAINTS to COMPLIMENTS

**in one easy move!  
Find the solution in**

### THE SPOTTING MANUAL OF THE DRYCLEANING INDUSTRY

*Revised Edition*

**by ALLEN O. FLIGOR  
and PAUL C. TRIMBLE**

The practical answer to your *No. 1 Customer Complaint*—unremoved spots! Clear and specific instructions for safe removal of 179 common spots and stains—as well as general spotting methods . . . supplies . . . equipment . . . fabric and stain identification.

**PLUS:** Chapters on wetcleaning, prespotting, bleaching and sizing, velvets (they're back in style!), lustering and delustering.

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304 EAST 45th STREET  
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Gentlemen:

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Firm .....

Address .....

City ..... State .....

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

# DIRECTORY SECTIONS

*of the Guidebook for the Laundry Industry*

## **CLASSIFIED DIRECTORY . . . Page 195**

For ready reference to any or all manufacturers of laundry products turn to the alphabetical listing of supplies and equipment. In most instances products are listed under the noun—that is, "Starch, Corn" rather than "Corn Starch." This arrangement is followed consistently except where common usage has joined the two words; for instance, "Puff Irons" rather than "Irons, Puff." Although listings are planned to yield the desired heading immediately, the directory is thoroughly cross-indexed. Display advertisers are listed in bold face type. For further information and page number of their ads see Index to Advertisers opposite inside back cover.

## **TRADE NAMES . . . . . Page 250**

This alphabetical list will be of continuing value to the laundryowner who wishes to identify the manufacturers of the industry's trade name products.

## **MANUFACTURERS . . . . . Page 270**

Listed alphabetically here are laundry equipment and supply manufacturers together with their locations. Having found a firm name in either of the directories described above, use this list to determine where to address your correspondence.

## **LOCAL BUYERS' GUIDE . . . Page 278**

This geographical breakdown provides complete buying information. Here you will find the jobbers or the branch offices serving your community. On the basis of the information we have received, firm names followed by (E) are jobbers for equipment, firm names followed by (S) are jobbers for supplies, and firm names followed by (E & S) are jobbers for both equipment and supplies. Bold face type denotes display advertisers. Index to Advertisers opposite inside back cover will provide the page number where you can obtain a complete description of their products.

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# Directory

## manufacturers of equipment and supplies used in the laundry industry . . .

### ABSORBERS, ODOR

Carbide & Carbon Chemicals Corp., Unit of  
Union Carbide & Carbon Corp.  
Davies-Young Soap Co.  
Schutte & Koerting Co.

### ABSORBERS, VIBRATION

**Chicago Metal Hose Corp.**  
Eclipse-Pioneer Div., Bendix Aviation Corp.  
Johns-Manville  
Johnson Metal Hose, Inc.  
M B Mfg. Co.  
**Packless Metal Products Corp.**  
Raybestos-Manhattan, Inc.  
Salomon, L. A., & Bro.  
U. S. Rubber Co.

### ACCOUNTING MACHINES AND SYSTEMS

Burroughs Adding Machine Co.  
National Cash Register Co.  
Recordak Corp.

### ACETATE ALUMINUM

See: Aluminum, Acetate

### ACETIC ACID

DuPont de Nemours, E. I., & Co., Inc.  
General Chemical Div., Allied Chemical & Dye Corp.  
Hachik Bleach Co.  
Mallinckrodt Chemical Works  
Patterson Laboratories, Inc.

### ACETONE

Carbide & Carbon Chemicals Corp., Unit of  
Union Carbide & Carbon Corp.  
DuPont de Nemours, E. I., & Co., Inc.  
Mallinckrodt Chemical Works

### ACID-RESISTING BUCKETS

See: Buckets and Pails, Acid-Resisting

### ACID-RESISTING HARD RUBBER FITTINGS

See: Fittings, Acid-Resisting, Hard Rubber

### ACID-RESISTING PAINT

See: Paint

### ACID-RESISTING PIPE

See: Pipe, Acid-Resisting, Alloy

### ACID-RESISTING TANKS

See: Tanks, Acid-Resisting

### ACIDS

See: Acetic Acid, Oxalic Acid

### ACTIVATED CARBON

Carbide & Carbon Chemicals Corp., Unit of  
Union Carbide & Carbon Corp.  
Darco Dept., Atlas Powder Co.



REG. U.S. PAT. OFF.

### BLUE LABEL DARCO

Activated Carbon  
continuously adsorbs

Grease—color impurities—fatty acids  
—odors—and other impurities from  
your dry cleaning solvent.

### DARCO DEPARTMENT

ATLAS POWDER COMPANY

Darco General Sales Offices

60 E. 42nd St., New York 17, N. Y.

DuPont de Nemours, E. I., & Co., Inc.  
**Elgin Softener Corp.**  
Inflico, Inc.  
**Permunit Co.**  
Salomon, L. A., & Bro.  
Stover Water Softener Co.

### ADDING MACHINES

Allen, R. C., Business Machines, Inc.  
Burroughs Adding Machine Co.  
National Cash Register Co.

### ADDRESSING EQUIPMENT

Addressograph-Multigraph Corp.

### ADSORBENTS

See: Activated Carbon, Filter Powder

### ADVERTISING POSTERS

See: Posters

### AFTERCOOLERS

Ingersoll-Rand Co.  
**Johnson Corp.**  
Murray, D. J., Mfg. Co.  
**Patterson-Kelley Co., Inc.**  
Schutte & Koerting Co.  
**Whitlock Mfg. Co.**  
Worthington Pump & Machinery Corp.

### AIR CLEANERS

Drico Industrial Corp.  
Wright-Austin Co.

### AIR COMPRESSORS

See: Compressors, Air

### AIR CONDITIONERS

Brunner Mfg. Co.



Self Contained

### AIR CONDITIONERS

4 sizes: 3-5-7-1/2-10 HP.

Remote Installation Types

up to 75 HP.

Write for Catalogs

**BRUNNER MANUFACTURING CO.**

Utica 1, New York, U. S. A.



Carl, Chas. W., Sone  
Carrier Corp.  
Chrysler Corp., Airtemp Div.  
Clarage Fan Co.  
Cuno Engineering Corp.  
Fairbanks, Morse & Co.  
Frigidaire Div., General Motors Corp.  
General Electric Co.  
Kelvinator Div., Nash-Kelvinator Corp.  
Murray, D. J., Mfg. Co.  
Petroleum Heat & Power Co.  
**Reliable Fur Storage Equipment Co.**  
**Div. Reliable Machine Works, Inc.**  
Trane Co.  
Young Radiator Co.  
Worthington Pump & Machinery Corp.

### AIR COOLERS

See: Coolers, Oil, Water, Air

### AIR ELIMINATORS

**Armstrong Machine Works**  
Barco Co., Inc.  
Wright-Austin Co.

### AIR FILTERS

Drico Industrial Corp.  
Haerdel, Walter, Co.  
Kaye & MacDonald, Inc.  
Master Products Co.  
Mine Safety Appliances Co.  
Owens-Corning Fiberglas Corp.  
Strong, Carlisle & Hammond Co.  
**Westinghouse Air Brake Co. Industrial Products Div.**

### AIR GAUGES

See: Gauges, Air

### AIR HEATERS

See: Heaters, Air

### AIR METERS

See: Meters, Air

### AIR SEPARATORS

Binks Mfg. Co.  
Clark Mfg. Co.  
De Vibism Co.  
**Johnson Corp.**  
Kaye & MacDonald, Inc.  
Keeley, O. C., Co.  
Leavitt Machine Co.  
Strong, Carlisle & Hammond Co.  
Wright-Austin Co.

### AIR TANKS

See: Tanks, Air

### AIR TRAPS

Anderson, V. D., Co.  
**Armstrong Machine Works**  
Binks Mfg. Co.  
Clark Mfg. Co.  
Kaye & MacDonald, Inc.  
Keeley, O. C., Co.  
Sarco Co., Inc.  
Squires, C. E., Co.  
Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.)  
Strong, Carlisle & Hammond Co.  
Wright-Austin Co.

### AIR VACUUM SYSTEMS, PRESSES

See: Vacuum Systems, Presses

### ALARMS, HIGH AND LOW WATER

Campbell, J. A., Co.  
Combustion Control Corp.  
Cutler-Hammer, Inc.  
Hapman-Dutton Co.  
**Johnson Corp.**  
**Kisco Boiler & Engineering Co.**  
**McDonnell & Miller, Inc.**  
Northern Equipment Co.  
**Schaub, Fred H., Engineering Co., Inc.**  
Sterling, Inc.  
U. S. Gauge Div., American Machine & Metals, Inc.  
Wright-Austin Co.  
**Yarnall-Waring Co.**

### ALARMS, SIGNAL

B & G Machinery Co.  
Campbell, J. A., Co.  
**Kuebsch Div., American Laundry Machinery Co.**  
Leslie Co.  
**McDonnell & Miller, Inc.**  
Norman & Co.  
Photowitch, Inc.  
Rosenthal Mfg. Co.  
Sterling, Inc.  
U. S. Gauge Div., American Machine & Metals, Inc.  
Wright-Austin Co.



**ALCOHOL**

Carbide & Carbon Chemicals Corp., Unit of  
Union Carbide & Carbon Corp.  
DuPont de Nemours, E. I., & Co., Inc.  
Patterson Laboratories, Inc.

**ALKALI COMPOUNDS, SPECIAL**

Carbide & Carbon Chemicals Corp., Unit of  
Union Carbide & Carbon Corp.  
Carlton Chemical Co., Inc.  
Carman & Co., Inc.  
Columbia-Southern Chemical Corp.  
Cowles Chemical Co.

**Cowles LAUNDRY PRODUCTS**

THE QUALITY  
LINE OF  
**WASHROOM  
DETERGENTS**

•  
*"Good Washing  
Wins Good Will"*  
•

BUY FROM YOUR  
COMMISS DISTRIBUTOR

**ESCOLITE  
NEW ESCOLLOID  
ESCOL 77  
DESOIL  
SOILSORS  
ESCOMO BLUE  
ESCOFOS  
CHLORESCO**

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See page 177

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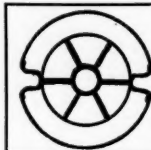
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See: Antiseptics, Bleaches, Sours

**GLASS CLOTH, WOVEN**

See: Cloth, Glass, Woven

**GLASSINE SHIRT ENVELOPES**

See: Envelopes, Shirt

**GLAZERS, FUR**

See: Fur Glaziers

**GLAZING FLUID, FUR**

See: Fur Glazing Fluid

**GLOBE VALVES**

See: Valves, Globe

**GLOVE CASES**

See: Cases, Glove



**GLOVE CLEANING MACHINES**

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**GLOVE FORMS**

Shedlov-Heins Mfg. Co.

**GLOVE SOAPS**

See: Soaps, Glove

**GLUES AND GUMS**American Writing Ink Co., Inc.  
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See: Conveyors, Go-Back

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See: Conveyors (under specific headings)

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Houghton, E. F., & Co.  
Keystone Lubricating Co.  
Lubriplate Div., Fiske Bros. Refining Co.  
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Para-Lux Products Co.**GUARDS, HAT**

See: Hat Guards

**GUARDS, LAMP**

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See: Safety Guards

**GUARDS, TROUSER**

See: Trousers Guards

**GUIDE RACKS**

Para-Lux Products Co.

**GUMMED TAPE**

See: Tape, Gummed

**GUMS**

See: Glues and Gums

**GUNS, SPRAY**

See: Spray Guns

**HAMPERS**

See: Baskets, Canvas

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See: Hoists

**HANDKERCHIEF CONVEYORS**

See: Conveyors, Handkerchief

**HANDKERCHIEF FLUFFERS**

See: Fluffers, Handkerchief

**HANDKERCHIEF IRONERS**

See: Ironers, Handkerchief

**HANDKERCHIEF REPLACEMENTS**

See: Replacements, Sheets, Pillowcases, etc.

**HAND TRUCKS**

See: Trucks, Industrial

**HANGER BLOCKS**

See: Blocks, Hanger and Pillow

**HANGER CAPES**

See: Capes, Wire Hanger

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See: Blocking Machines, Hat

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See: Bleach

#### SILK PRESSES

See: Presses, Silk

#### SILK SOAPS

See: Soaps, Silks and Woolens

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See: Rug and Carpet Cleaning Equipment

#### SIZING, HAT, FELT AND PANAMA

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See: Rug and Carpet Cleaning Equipment

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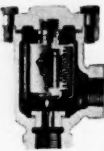
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### TUMBLER PADS

See: Pads, Tumbler

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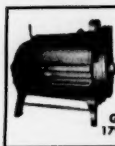
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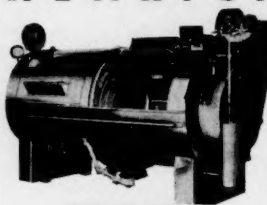
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See page 171

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ADCO FUME, liquid gas fumigant, Adco, Inc.  
ADCO SUDS, drycleaning soap, Adco, Inc.  
ADCO-UNIT, curtain stretching, Rosenthal Mfg. Co.  
ADD-A-LIN, shirt-stretching bias, Time Savers, Inc.  
AD, FLAME PROOFER, fire repellent, Huntington Laboratories, Inc.  
ADJUSTA-FORM, steam-air finisher, Wichita Precision Tool Co., Inc.  
ADJUST, adjustable garment hangers, Hopkins Equipment Co.  
ADJUST-O-FEEDER, constant rate proportioning pump, Proportioners, Inc.  
ADJUSTO, drycleaning soap, liquid and powder wetcleaning soap, powder rug cleaning soap, spotting and mothproofing agents, Adrian Research & Chemical Co., Inc.  
ADSCO, expansion joints, steam traps, water heaters, American Joint Steam Co.  
ADS-LIFE, nylon cover cloth, Whitehouse Products, Inc.  
ADWACHE AIRDRY TUMBLER, laundry and drycleaning tumbler, Driair Process Machinery Co.  
A. E. PERFECT SPREAD, stokers, American Engineering Co.  
AERON, collar support, J. W. Steele & Co.  
AIRCON, continuous conditioning tumbler, American Laundry Machinery Co.  
AIRCRAFT, drying tumbler, American Laundry

**AIR DRY TUMBLER**, laundry and drying cleaning tumblers, Driar Process Machinery Co.

**AIRFOAM**, latex cushioning for press pads, Goodyear Tire & Rubber Co.

**AIRFORM**, mail and jacket shapers, U. S. Hoffman Machine Corp.

**AIR-LOCK**, cuff-drying hanger, R. D. Bussard & Son

**AIROCOOL**, industrial gas burners, National Airoil Burner Co., Inc.

**AIRTECH**, cleaning equipment, Chrysler Corp., Airtemp Div.

**AIRVENT**, ventilating canopies for flatwork ironers, American Laundry Machinery Co.

**AIR-JAC**, commercial and residential combustion stokers, Chicago Automatic Stoker Co.

**AJAX**, dyeing, laundry presses, Western Laundry Press Co.

**AJAX**, dyeing retardant, General Dyestuff Corp.

**AKRO**, grain opener, Akro Paper Co.

**AKTIV**, darning opener, Turbo Products, Inc.

**AKUSAKA**, was, T. G. Cooper & Co., Inc.

**ALBANY**, greases, oils, Adam Cook's Sons, Inc.

**ALBANY**, textile whitener, Carleton Chemical Co., Inc.

**AL-BEX**, stain remover, Spitz Products Co.

**ALBURA**, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.

**ALBRA**, brushes, brooms, Braun Brush Corp.

**ALEMITE**, lubricants and oils, lubricating equipment, Stewart-Warner Corp., Alemite Corp.

**ALEMITAL**, sprayers, spray equipment, Stewart-Warner Corp., Alemite Corp.

**ALERT**, boilers, Alert Engineering Products

**ALERT**, fire extinguishers, American-La France-Foamite Corp.

**ALERT**, watchmen's clocks, Detex Watchclock Corp.

**ALFCPU**, fire extinguishers, American-La France-Foamite Corp.

**ALFCOSPRAY**, nozzles, American-La France-Foamite Corp.

**ALFITE**, carbon dioxide type fire extinguisher, American-La France-Foamite Corp.

**ALFOAM**, fire extinguishers, American-La France-Foamite Corp.

**ALGONQUIN**, soap, Lewis National Corp.

**ALIZONA**, aniline dye, American Aniline Products, Inc.

**ALKALATE**, laundry detergent, Diamond Alkali Co.

**ALKOSOL COMBINATION**, self-mixed soap detergent, Merson Products Co.

**ALK-OR**, liquid dyeing detergent, Davies-Young Soap Co.

**ALL-DAY**, soap, Washine National Sands, Inc.

**ALKOSOL**, alkali soap builder, Carleton Chemical Co., Inc.

**ALL COLEB**, bleach, Warco Laboratories

**ALL-CLIP**, laundry marking tag, Boston Clip & Tag Co.

**ALLEGHENY METAL**, stainless steel, Allegheny Ludlum Steel Corp.

**ALL-ONE**, electric steam generators, steam electric and electric irons, H. P. Cooper & Co.

**ALIEN WALES**, adding machines, National Cash Register Co.

**ALL-ONE**, promotional material, Allied Printing & Stationery Co., Inc.

**ALLIGATOR**, belt fasteners, belt cutters, Flexible Steel Lacing Co.

**ALL-IN-ONE**, air-conditioning unit, Chrysler Corp., Airtemp Div.

**ALL-IN-ONE**, dyeing, cleaning systems, filters, washers, All-In-One Mfg. & Supply Co.

**ALL-ONE**, zipper repair, spoting gun, press clamp, laundry nets and fabrics, Newhouse Co.

**ALLOCK**, laundry nets and fabrics, Davis Mills

**ALL-PURPOSE**, shirt unit, Prosperity Co., Inc.

**ALL-PURPOSE**, sour, Thompson-Hayward Chemical Co.

**ALL-STATE**, starch, A. E. Staley Mfg. Co.

**ALLSET**, unit set forms, Ego Register Co.

ALL-STEEL scales, Triner Scale & Mfg. Co.  
ALLWAY, trouser shaper, Huebsch Div., American Laundry Machinery Co.  
ALLWEATHER, fire extinguisher, American-La France Foamite Corp.  
ALL WIRE, garment hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.  
ALMCON, automatic washing control, American Laundry Machinery Co.  
ALRITE, pins, trays and tray cabinets, marking pins, Rex Davis Co.  
ALROLENE 70, petroleum drycleaning detergent, Alrose Chemical Co.  
ALROLENE 65, synthetic drycleaning detergent, Alrose Chemical Co.  
ALROLENE 30, repellents, Alrose Chemical Co.  
ALROSENE 31, synthetic detergent, Alrose Chemical Co.  
ALUMEX 50, 60, 70, high alumina firebrick, Kalsolite Refractories Co.  
ALUMIKOTE, aluminum paint, Vita-Var Corp.  
ALUMINOX, high-luster aluminum paint, Subox, Inc.  
ALUMINUM OILITE, bearings and parts, Chrysler Corp., Ampex Div.  
ALVANOL, synthetic wetcleaning soap, Allen & Vickers, Inc.  
ALVOR, oil control, Lunkenheimer Co.  
AMALAC, acetate dyes, American Aniline Products, Inc.  
AMAFORM, dyeing agent, American Aniline Products, Inc.  
AMALAN, dyestuffs, American Aniline Products, Inc.  
AMALIE, oils and greases, L. Sonneborn Sons, Inc.  
AMANTHRENE, aniline dyes, American Aniline Products, Inc.  
AMAPRO UNION, aniline dyes, American Aniline Products, Inc.  
AMAZON, washing powder, Swift & Co.  
AMAZONE, ozone generators, American Ozone Co.  
AMBASSADOR, continuous towel cabinet, Ambassador Continuous Cabinet Co.  
AMBER, continuous towel cabinet, sleeve form, sleeve press board, press clamp, steam iron stand, iron stand, iron rest, Amber Mfg. Co.  
AMBER FLAKES, neutral tallow soap, Procter & Gamble Distributing Co.  
AMCO, continuous towel pads for numbering machines, American Numbering Machine Co.  
AMERICAN, continuous towel cabinets, paper towel cabinets, Steiner Sales Co.  
AMERICAN, curtain ironing pads for finishing equipment, American Laundry Machinery Co.  
AMERICAN, drying and deodorizing cabinet, American Laundry Machinery Co.  
AMERICAN, extractors, American Laundry Machinery Co.  
AMERICAN, flatwork feeder and spreader, American Laundry Machinery Co.  
AMERICAN, high-speed tumblers, American Laundry Machinery Co.  
AMERICAN, laundry and drycleaning solid-curb extractors, American Laundry Machinery Co.  
AMERICAN, men's dress and sport shirts, pajamas, pajama shirt, American Laundry Machinery Co.  
AMERICAN, paint-removing solvent, Adco, Inc.  
AMERICAN, starch cookers, American Laundry Machinery Co.  
AMERICAN, water meters, Buffalo Meter Co.  
AMERICAN, wearing apparel, linen supply and other special purpose press units, American Laundry Machinery Co.  
AMERICAN AIRCRAFT, tumblers, American Laundry Machinery Co.  
AMERICAN AUTOMATIC, drycleaning tumblers, temperature controls, American Laundry Machinery Co.  
AMERICAN BEAUTY, electric flatirons, American Electrical Heater Co.  
AMERICAN CASCADE, washers, American Laundry Machinery Co.  
AMERICAN CASCADIA, washers, American Laundry Machinery Co.  
AMERICAN-LA FRANCE, fire extinguishers, American-La France-Foamite Corp.  
AMERICAN MOORE, super and master ironers, American Laundry Machinery Co.



**AMERICAN MONARCH**, washers, American Laundry Machinery Co.  
**AMERICAN MUROZA**, feather cleaning and sterilizing system, American Laundry Machinery Co.  
**AMERICAN O. T.**, drycleaning extractor, American Laundry Machinery Co.  
**AMERICAN SUPER SPEED**, tumblers, American Laundry Machinery Co.  
**AMERICAN SYSTEM**, shirt conveyor and presses, American Laundry Machinery Co.  
**AMERICAN TYPE A and TYPE C**, semi-automatic washer controls, American Laundry Machinery Co.  
**AMERICAN VISIBLE**, hand numbering machine, American Numbering Machine Co.  
**AMERICAN ZONE-AIR**, feather reconditioning unit, American Laundry Machinery Co.  
**AMERICAN ZONE-AIR**, laundry and drycleaning tumblers, American Laundry Machinery Co.  
**AMES**, boiler engines, etc., Ames Iron Works  
**AMESTEAM**, steam generator, Ames Iron Works  
**AMICO**, washers and extractors, U. S. Hoffman Machinery Corp.  
**AMINOL**, drycleaning detergent, Trico Chemical Div., Tri-State Equipment Co.  
**AMMOCIDE**, laundry sterilizer, mildew preventive, Carlton Chemical Co., Inc.  
**AMOREDEX**, extractor covers, Patek & Co.  
**AMSCO**, high-flash Stoddard solvent, 140F solvent, special naphtha, American Mineral Spirits Co.  
**AMYLIN**, laundry starches, National Starch Products, Inc.  
**ANDERSON**, paper collar supports, Howe Paper Corp.  
**ANDERSON**, pipe-line strainers, steam traps, V. D. Anderson Co.  
**ANDREA**, measuring chart, M. Andreas  
**ANGELICA**, washable service apron, Angelica Uniform Co.  
**ANHIDRO**, spotting agent, A. L. Wilson Chemical Co.  
**ANOLITE**, anhydrous emulsifier, R. R. Street & Co.  
**ANSUL**, fire extinguishers, Ansul Chemical Co.  
**ANTHONY**, oil burners, pipe-line strainers, valve, Anthony Co.  
**ANTHONY NEBULYTE**, gas, gas-oil, oil burners, torches, Anthony Co.  
**ANTI-CRUSH**, double collar supports, J. W. Steele & Co.  
**ANTI-ROLL**, checks rolling on flatwork ironers, H. Kohnstamm & Co., Inc.  
**ANTISEPTIN**, active fungicide and germicide, Carman & Co., Inc.  
**APACHE**, soap builder, Wyandotte Chemicals Corp.  
**APCO 140**, flash naphtha, Anderson-Prichard Oil Corp.  
**APPLEGATE**, indelible ink (silver base), laundry marking pens, linen marking machine (hand, foot and motor power), Applegate Chemical Co., Stamford Chemical Co.  
**APPLICET**, powdered aluminum acetate, Arnold-Hoffman & Co., Inc.  
**AQUADOL**, wet spotter and neutral lubricant, Stamford Chemical Co.  
**AQUASOL**, paint, oil, grease spotter, A. F. Wolke Co.  
**AQUAWAX**, self-emulsifying lubricant wax, Concord Chemical Co.  
**ARABOL**, starch, Arabol Mfg. Co.  
**ARBUTUS**, soap, Minnesota Chemical Co.  
**ARC-HEAT**, oil burners (steam atomizing), American Heat Corp.  
**ARCTIC CRYSTAL**, all-tallow soap and granulated flakes, Colgate-Palmolive-Peet Co.  
**ARCTIC SYNTEX**, synthetic detergents, Colgate-Palmolive-Peet Co.  
**ARIDEX**, renewable, line water repellent, E. I. du Pont de Nemours & Co., Inc.  
**ARISTOCRAT**, pillow tickings, R. Lally Co.  
**ARISTOCRAT**, safety pins, William Prym, Inc.  
**ARK-VAK**, nylon belting, Philadelphia Belting Co.  
**ARLAC PAWNEE**, alkali, soap builder, Wyandotte Chemicals Corp.  
**ARM**, phosphate and industrial chemicals, A. R. Maas Chemical Co.  
**ARMA**, marking machines, daily delivery tags, loop tags, dispenser tags, day tags, safety pins, Pittsburgh Tag Co.  
**ARMOUR**, soaps and synthetics, Armour & Co.  
**ARMSTRONG**, humidifiers, strainers, traps, Armstrong Machine Works  
**ARMS**, 1370, nylon, wool press cloth, Arms Textile Mfg. Co.  
**ARRESTO-MOTH**, mothproofing compound, Pennsylvania Salt Mfg. Co.  
**ARROW**, cuff fasteners, Arrow Mfg. Co.  
**ARROW**, sponge pads, Arrow Mfg. Co.  
**ARROW**, staplers, staples and staple removers, Arrow Fastener Co., Inc.  
**ARROW LAUNDRO-PAD**, laundry press pad, Arrow Mfg. Co.  
**ARROW LINE**, hat renovating, manufacturing and blocking machinery, American Hatters Supplies, Inc.  
**ARROW LONG ARM**, long reach stapler, Arrow Fastener Co., Inc.  
**ARTKO**, steam-air garment finishers, Artko Mfrs. Association, blended nylon and asbestos press cloths, U. S. Rubber Co.  
**ASBESTEX**, asbestos covers, X. S. Smith, Inc.  
**ASBESTON**, chest type flatwork ironer cover, U. S. Rubber Co., Textile Div.  
**ASHVEYOR**, pneumatic conveyor system, Brady Conveyors Corp.

**ASSISTEX**, concentrated drycleaning soap, Takamine Laboratory, Inc.  
**ATLANTIC**, anti-sour blue, Beach Soap Co.  
**ATLAS**, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**ATLAS**, truck bodies, Atlas Body Co.  
**ATLAS FIRE RETARDANT**, flameproof agent, H. Kohnstamm & Co., Inc.  
**ATLAS GRAVITY FEEDER RACK**, for flatwork ironers, Atlas Steel Products, Inc.  
**ATLAS MOISTURE CONTROL**, for control of moisture retention in laundry extractors, Atlas Steel Products, Inc.  
**ATLAS RUST SOUR**, sour, H. Kohnstamm & Co., Inc.  
**ATOMIC**, drycleaning systems, wet washers, Hammond Laundry-Cleaning Machinery Co.  
**ATOMOL**, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.  
**ATTASOL**, colloidal clay, Attapulpus Clay Co.  
**ATTORIS**, fur glaze and cleaning fluid, Bernard Sirotta Co.  
**AUTOGRAPHIC**, registers, business forms, Autographic Register Co.  
**AUTO-KLEAN**, filter, Cuno Engineering Corp.  
**AUTO-LEVEL**, boiler return system, Spotswood Parker & Co.  
**AUTO-LITE**, gauges, indicating and recording thermometers, Electric Auto-Lite Co.  
**AUTOMATIC**, lubricators, Victor Lubricator Sales Co.  
**AUTOMATIC**, spray guns, OlsenMark Corp.  
**AUTOMATIC PALLET LOADER**, automatic stacking of cartons, Lamson Corp., Blower Div.  
**AUTO-PEL**, complete drycleaning unit, Vic Solving Machine Co.  
**AUTOSET**, a type of free-vane air-operated controller, Bristol Co.  
**AVACHLOR**, drycleaning soap for synthetic solvents, Allen & Vickers, Inc.  
**AVAGLO 20**, drycleaning soap, Allen & Vickers, Inc.  
**AVEE**, dry spotter, wet spotter, rug soap, upholstery cleaner, hat cleaning soap, hat sizing, Allen & Vickers, Inc.  
**AXIAL-FLOW**, exhaust fan, DeBothezat Fans Div., American Machine & Metals, Inc.  
**AXZ**, first quality, stiff mud firebrick, Mexico Refractories Co.  
**AYR-MOR**, drycleaning and laundry tumblers, drycleaning systems, Ayr-Mor Machinery Co.

## B

**B & G**, conveyors, all types, B & G Machinery Co. B. & W., boilers, Babcock & Wilcox Co.  
**B.B.**, white grease, low pressure grease, Keystone Lubricating Co.  
**B.N.B.**, collar support, clamp, loop, J. W. Steele & Co.  
**B. N. D.**, concentrated liquid drycleaning detergent, Benda Products, Inc.  
**B-X**, bloodstain remover, John P. Lynch Co.  
**BABSOVL**, spotter and lubricant, Slater-Robbins Co., Inc.  
**BADGER**, liquid soap, Colgate-Palmolive-Peet Co.  
**BARTOD**, concentrated drycleaning soap, Slater-Robbins Co., Inc.  
**BARTEX**, lipstick and paint remover, Slater-Robbins Co., Inc.  
**BAR-ZYME**, digester, Slater-Robbins Co., Inc.  
**BADER**, pants stretcher, C. L. Bader Co., Inc.  
**BADGER**, break powder, Minnesota Chemical Co.  
**BAGGER**, liquid soap, Colgate-Palmolive-Peet Co.  
**BAFFLE-CRETE**, for monolithic baffle construction, Mexico Refractories Co.  
**BAG-O-MATIC**, combined bagger, invoice desk, bag storage rack, G. H. Bishop Co.  
**BAG-O-TEER**, garment bagger, G. H. Bishop Co.  
**BAHNSON**, centrifugal humidifier, Bahnsen Co.  
**BALANCED DRIVE**, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**BALSAM-WOOL**, blanket insulation, Wood Conversion Co.  
**BAND BOX**, drycleaning systems, synthetic solvent, Band Box Corp.  
**BANNER BAND**, button, buckle, pinning, futing, pleating, darning machines, Maxant Button & Supply Co.  
**BANTAM**, autographic registers, Autographic Register Co.  
**BANTAM**, net, Southern Mills, Inc.  
**BARCO**, flex-shaft steam revolving and swing joints, Barco Mfg. Co.  
**BARRELED SUNLIGHT**, enamels, paints, varnishes, Barreled Sunlight Paint Co.  
**BAR-RUST**, exterior and interior inhibitive paint for steel and pipe, Midland Paint & Varnish Co.  
**BASKE TRUCK**, wire basket truck, G. H. Bishop Co.  
**BEACH**, casters, wheels, Bassick Co.  
**BEACHRITE**, built soap, Beach Soap Co.  
**BEATS-ALL**, covers, nets, padding, Tinguo, Brown & Co.  
**BEAU-CLEAN**, drycleaning soap, Murphy Sales Co.  
**BEEHIVE**, spring padding, Western Laundry Press Co.

**BEGO-TURNER**, boiler baffles, Fibbrico Jointless Firebrick Co.  
**BEICO**, water softeners, Beico Industrial Equipment Div.  
**BEICOLITE**, zeolite, Beico Industrial Equipment Div.  
**BELL-JO**, starch, A. E. Staley Mfg. Co.  
**BELLMASTER**, mechanical pipe joint for cast iron pipe, Dresser Mfg. Div., Dresser Industries, Inc.  
**BELMONT**, gaskets, packings, Belmont Packing & Rubber Co.  
**BELT-ZIP**, belt hanger, Para-Lux Products Co.  
**BENDA**, liquid drycleaning soap, paint and grease remover, Benda Products, Inc.  
**BENDA-ZYME**, digester, Benda Products, Inc.  
**BENDIX**, seamless flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.  
**BENDOVER**, cuff fasteners, A. Kimball Co.  
**BENSAPOL**, scouring agent, Jacques Wolf & Co.  
**BENZOCARDINOLE OXO**, detergent, Apex Chemical Co., Inc.  
**BERGER**, metal lockers, shelving, cabinets, bins, Republic Steel Corp.  
**BERKSOL**, drycleaning soap, Stadham Co., Inc.  
**BERKSTRIP**, stripper, Stadham Co., Inc.  
**BERKSDS**, synthetic detergent, Stadham Co., Inc.  
**BERLOU**, mothproofing agent, Berlou Mfg. Co.  
**BERSENE**, water softener, Berworth Chemical Co.  
**BERSONITE**, built soap, Stadham Co., Inc.  
**BESLER**, steam generators, superheaters, Besler Corp.  
**BEST FORMS**, tag identification systems, Best Forms Co.  
**BESTOS**, asbestos covers, padding, Tinguo, Brown & Co.  
**BEST YET**, cellophane ribbon, cotton twines, New York Twine Corp.  
**BIFURCATOR**, duct fan, DeBothezat Fans Div., American Machine & Metals, Inc.  
**BIG CHIEF**, laundry nets, Southern Mills, Inc.  
**BIG CHIEF**, wood washer, Illinois Laundry Machinery Mfg. Co.  
**BIG FLO**, filters, Butler Mfg. Co.  
**BIG G**, A. stripper, Eaton Chemical & Dyestuff Co.  
**BIG HORN**, bentonite clay, Wyoatana Mining Co.  
**BIG HORN WYOMING**, colloidal clay, Wyoatana Mining Co.  
**BIG INCH**, pressure-sensitive tape dispensers, Better Packages, Inc.  
**BIGMOUTH**, shake-out tumbler, Purkert Mfg. Co.  
**BILLINGSLEY**, extractors, filters, washers, Billingsley Machinery Co.  
**BILVIX-X**, detergent and soap builder, Warco Laboratories  
**BINGO**, drain pipe opener, Huntington Laboratories, Inc.  
**BIONOLS**, germicides, General Dyestuff Corp.  
**BIOPALS**, germicidal detergents, General Dyestuff Corp.  
**BISHOP**, laundry, drycleaning production equipment, G. H. Bishop Co.  
**BISNO**, sewing room supplies, Bisno Supply Co.  
**BISONITE**, plastic coating, Washine National Sande, Inc.  
**BIXBEE** #20, fur and leather cleaning aid, Bixbee Research, Div. of Blazemaster, Inc.  
**BIXLER**, conveyors, National Marking Machine Co.  
**BLACK LINE**, knitted padding, Minnesota Chemical Co.  
**BLACK MAGIC**, pipe-sealing compound, gasket cement, Bowser, Inc.  
**BLACKMER**, rotary hand and power pumps, Blackmer Pump Co.  
**BLACK OUT**, ink remover, J. L. Hardin Co., Inc.  
**BLANKET-STIK**, stain remover, Keystone Anilines & Chemical Co., Inc.  
**BLANCO**, all fabric stripper, Keystone Anilines & Chemical Co., Inc.  
**BLANKETMASTER**, blanket washing machine, Hopkins Equipment Co.  
**BLAZE-PRUF**, flameproof, Crossland Mfg. Co., Inc.  
**BLENCO**, rug cleaning soap, Blenco Co.  
**BLENDOSOL**, drycleaning soap, R. R. Street & Co., Inc.  
**BLOOD-I-CATER**, spot remover, W. F. Johnson Products Co.  
**BLOOD-MUV**, stain remover, Package Chemical Co.  
**BLOOD-PLUS**, INK-O, spotting aids, Ink-O Products Co.  
**BLUD-X**, concentrated liquid enzyme, Huntington Laboratories, Inc.  
**BLUE BELLI**, blue, H. Kohnstamm & Co., Inc.  
**BLUE BONNET**, blue, H. Kohnstamm & Co., Inc.  
**BLUE-EDGE**, aprons, wetwash bags, Lewis National Corp.  
**BLUE LABEL**, tallow soap, Beach Soap Co.  
**BLUE LINE**, collar supports, hangers, shirt bands, necktie hangers, Loroco Industries, Inc.  
**BLUE RIBBON**, laundry nets, Southern Mills, Inc.  
**BLUE RIBBON**, polishes, waxes, International Metal Polish Co.  
**BLUE RIDGE**, leather belting, waterproof leather belting, Charlotte Leather Belting Co.  
**BLUE STAR**, feed ribbons, L. H. Gilmer Co., Div. U. S. Rubber Co.  
**BLUE STREAK**, nylon nets, Whitehouse Products, Inc.  
**BLUE STRIPE**, cover cloth, padding, William E. Hooper & Sons  
**BLUFIXE**, sour, H. Kohnstamm & Co., Inc.

**BLUFIXE EXTRA-SOLUBLE**, sour, H. Kohstamm & Co., Inc.

**BLUREX**, sour, Hood Chemical Co., Inc., Crescent Div.

**BLU-TINT**, laundry sour, Johnson Chemical Industries, Inc.

**BLUTONE**, liquid blue, E. F. Drew & Co., Inc.

**BOCK**, drycleaning, laundry extractors, Bock Laundry Machine Co.

**BOCONIZE**, mothproofing compound, Boco Chemical Co.

**BOGUE**, motors, generators, Belco Industrial Equipment Div.

**BOILA KLEEN**, boiler compound, Patek & Co.

**BOILER SOLDER SEAL**, metallic powder for boiler repairs, Radiator Specialty Co.

**BONASOL**, textile dyeing assistants, American Aniline Products, Inc.

**BOND**, truck casters, Bond Foundry & Machine Co.

**BONE-DRI**, water repellent, Benda Products, Inc.

**BONIS**, fur drum, fur sewing machine, Bonis Bros. Fur Machinery Corp.

**BON-TEX**, asbestos press boots, F. H. Bonn Co.

**BOOSTER**, shirt unit, Unipress Co., Inc.

**BORASUDS**, textile scouring, Essential Chemicals Co.

**BOROCHLOR**, liquid bleach, H. Kohstamm & Co., Inc.

**BOSTAGS**, marking tags, Boston Clip & Tag Co.

**BOSTITCH**, cuff tuckers, stapling machine, staples, Bostitch Corp.

**BOWSER**, stills, filters, Bowser, Inc.

**BRANFORD**, oil burners, Malleable Iron Fittings Co.

**BREADY**, hot water heater, Bready Engineering Corp.

**BREAK-AID**, solvent pine oil, Thompson-Hayward Chemical Co.

**BREAK-O-SOAP**, soap, Swift & Co.

**BREAK-PHOS**, soap regenerator, Thompson-Hayward Chemical Co.

**BREAKSTN**, break detergent, E. F. Drew & Co., Inc.

**BRESSLER**, controls, Bressler Engineering Service

**BREX**, break compound, Procter & Gamble Distributing Co.

**BRIDGEPORT**, copper water tubing, Bridgeport Brass Co.

**BRIGHTGLO**, wetcleaning detergent, Merson Products Co.

**BRILLANTONE**, sour, G. S. Robbins & Co.

**BRILLO**, press pads, Brillio Mfg. Co., Inc.

**BRISTO**, multiple slip socket set screws, hollow head cap screws, Bristol Co.

**BRISTOL**, starch, H. Kohstamm & Co., Inc.

**BRISTOL'S**, instruments, Bristol Co.

**BRITE**, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.

**BRITTEWHITE**, laundry blue, Washine National Sands, Inc.

**BRITEX**, sour, powdered soap, Van Chemical Co.

**BRI-TONE**, drycleaning concentrate, Spix Products Co.

**BRIZENE**, drycleaning soaps, Patek & Co.

**BROWNELL**, boilers, heat exchangers, stokers, Brownell Co.

**BROX**, del-cut cardboard, Alfred J. Brooks

**BROXFORMS**, shirt boxes, Alfred J. Brooks

**BRUNNER**, air compressors, air conditioners, refrigeration condenser, Brunner Mfg. Co.

**BRUSH-AWAY**, hand-brushing drycleaning soap, Raychem Products Co.

**BRUSHENE**, hand-brushing soap, Keystone Aniline & Chemical Co., Inc.

**BRUSH-KLEEN**, brushing soap, Adco, Inc.

**BRUSH-OUT**, drycleaning soap, Caled Products Co., Inc.

**BRYAN**, boilers, Bryan Steam Corp.

**BUCKEYE**, drycleaning washer, American Laundry Machinery Co.

**BUCKEYE**, soaps, spotters, stain remover, suede leather dressing, water repellent, paint, oil and grease remover, rug and upholstery shampoo, Davies-Young Soap Co.

**BUCKEYE KLOH-LENE**, spotter, Davies-Young Soap Co.

**BUCKEYE LIQUA-BREAK**, break and stain remover, Davies-Young Soap Co.

**BUCKEYE WET SPOTTER**, all-around wet spotter, Davies-Young Soap Co.

**BUCKEYE ZYMAG**, digestive spotter, Davies-Young Soap Co.

**BUDA**, industrial trucks, Buda Co.

**BUFF**, alkali compound, special detergents, E. F. Drew & Co., Inc.

**BUFFALO**, extractor, filter, still, Gross Machinery Co., Inc.

**BULLDOG**, nylon laundry nets, metal press pads, X. S. Smith, Inc.

**BUMINOL**, albuminous stains and blood remover, Spix Products Co.

**BUNN**, bundle-tying machine, B. H. Bunn Co.

**BURBATE**, cotton padding, Pittsburgh Waterproof Co.

**BUROMIN**, boiler water treatment, Hagan Corp.

**BURROUGHS**, accounting, adding, bookkeeping, calculating, cash-registering machines, business machine supplies, Burroughs Adding Machine Co.

**BUSSARD**, spooled pants pocketing, collapsible extractor cover, R. D. Bussard & Son

**BUTLER**, boiler water treatment, mechanical descaler, Butler Engineering Co.

**BUTLER**, drycleaning plant equipment, Butler Mfg. Co.

**BUTNOLE**, hub perforating dye tag, Boston Clip & Tag Co.

**BUTTON-NO-BUTTON**, loop and clasp, J. W. Steele & Co.

**BYLAN**, cover cloth, Magla Products

## C

C. B., detergent, Adco, Inc.

C-50, drycleaning detergents, Nu-Pro Mfg. Co.

C-H, electrical equipment, Cutler-Hammer, Inc.

C-L, washers, extractors, Cummings-Landau Laundry Machinery Co., Inc.

Chd, fire retardant, E. I. du Pont de Nemours & Co., Inc.

CMH, expansion joints, expansion bellows, flexible metal conduit, Chicago Metal Hose Corp.

C and S, cleaning powder, Swift & Co.

CABINET-SAN, deodorant, Huntington Laboratories, Inc.

CALDWELL, tank, W. E. Caldwell Co., Inc.

CALICO, drycleaning, laundry, starch extractors, wood laundry washer, wood cylinders, California Laundry Equipment Co.

CALGON, detergents, metaphosphate, rug cleaning and finishing compound, sizings, sodium metaphosphate, solvent, lime soap, water conditioners, chemical water softeners, Calgon, Inc.

CALICO, medium-titer built soap, Procter & Gamble Distributing Co.

CALLANET, knitted nylon nets, Callaway Mills, Inc.

CALSILITE, pipe-covering blocks, Ruberoid Co.

alarms, J. A. Campbell Co.

CALSO, drycleaning soaps, Caled Products Co., Inc.

CAMBRIDGE, electrical and mechanical precision instruments, Cambridge Instrument Co., Inc.

CAMELFORMS, laundry shells, Campbell Box & Tag Co.

CAMELTAGS, laundry tags, Campbell Box & Tag Co.

CAMBO, starch, A. E. Staley Mfg. Co.

CAMERON, pumps, Ingersoll-Rand Co.

CAMPBELL MICRONETIC, water and signal

CANTON, stokers, Canton Stoker Corp.

CAPITAL, marking tags, U. S. Marking Tag Co.

CAPITAL, posters, display frames, inserts, Pargament-Fidler, Inc.

CAPITAL, posters, streamers for window display, Capital Poster Service

CAPITOL, paint and grease remover, Allen & Vickers, Inc.

CARBEX, silicon carbide super-refractory brick, McLeod & Henry Co., Inc.

CARBIDE METHANOL, alcohol, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CARBITOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CARBO-DUR, activated carbon, Permutit Co.

CARBON-TET, synthetic cleaning fluid, E. I. du Pont de Nemours & Co., Inc.

CARBO-SOUR, laundry chemical, Diamond Alkali Co.

CARBOXIDE, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CARCO, marking-machine ink, type cleaner, ink thinner, Carman & Co., Inc.

CARCO, press head cleaner, Carman & Co., Inc.

CARCO, wire hangers, trouser guards, Carman & Co., Inc.

CARCODERM, hand lotion for drycleaners, Carman & Co., Inc.

CARCOFLEX, plasticizing agent for plastic or resin-treated fabrics, Carman & Co., Inc.

CARCOLENE, general spotter, Carman & Co., Inc.

CARCO SOURS, neutralizing agents, Carman & Co., Inc.

CARCOSUDS, rug shampoo, Carman & Co., Inc.

CARCOVAN, light truck body, Pacific Car & Foundry Co.

CARDOGRAPHI, addressograph machine, Addressograph-Multigraph Corp.

CAREYCLAD, roof coating, Philip Carey Mfg. Co.

CAREYCRETE, mastic flooring, Philip Carey Mfg. Co.

CAREYDUCT, asbestos duct, Philip Carey Mfg. Co.

CAREY'S SALT, salt tablets, dispensers, Carey Salt Co.

CAREYSTONE, asbestos-cement roofing, siding, Philip Carey Mfg. Co.

CARLYAR, metal products, Chas. W. Carl Sons

CARLTONITE, synthetic detergent laundry washing compound, Carlton Chemical Co., Inc.

CARMAN, indelible pen ink, Carman & Co., Inc.

CARMANETS, nylon nets, Carman & Co., Inc.

CAR-NA-CRETE, concrete paint, Continental Car-Na-Var Corp.

CAR-NA-KLEEN, floor cleaner, Continental Car-Na-Var Corp.

CAR-NA-LAC, self-polishing heavy-duty floor wax, Continental Car-Na-Var Corp.

CAR-NA-SEAL, phenolic resin seal for wood and porous floors, Continental Car-Na-Var Corp.

CAR-NA-VAR, upholstery and carpet cleaning machine, liquid spirit wax requiring buffing, Continental Car-Na-Var Corp.

CARRIER, air-conditioning, heating, refrigerating systems, Carrier Corp.

CARVEL, nylon covering, press covers, Carman & Co., Inc.

CARVER, centrifugal pumps, Carver Pump Co.

CASCADE, mechanical unloading washer, laundry washers, automatic washing control, American Laundry Machinery Co.

CASCADE, nets, H. Kohstamm & Co., Inc.

CASH'S, woven names, labels, markers, tape, J. & J. Cash, Inc.

CASH'S NO-SO CEMENT, labels, markers, tape, J. & J. Cash, Inc.

CASH STANDARD, valves, regulators, A. W. Cash Co., Inc.

CAST-REFRACT, refractory materials, Quigley Co., Inc.

CATERPILLAR, diesel engine, Caterpillar Tractor Co.

CAU-FLAN, flannel cotton pads, X. S. Smith, Inc.

CAUSUL, gate valve, Lunkenheimer Co.

CEDAR SHIELDS, storage bags, Rasmussen Bag Co., Inc.

CEGLAN, finish for textiles, Sylvania Industrial Corp.

CELANESE, dyes, American Aniline Products, Inc.

CELA-SOL, paint remover, National Cleaners Chemical Mfg. Co.

CELESTRAY, photoelectric pyrometer, C. J. Tagliabue Div., Fortable Products Corp.

CELITE, filter aids (diatomaceous silica), Johns-Manville

CELLOSIZE, sizing, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CELLUSOLVE, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CELULOSE, drycleaning soaps, J. L. Hardie Co., Inc.

CELOFORM, spotter, Keystone Aniline & Chemical Co., Inc.

CEMENTKOTE, cement, brick paint, Tropical Paint & Oil Co.

CENTURY, motors, generators, Century Electric Co.

CENTURY BRAND, sodium perborate, Eaton Chemical & Dyestuff Co.

CERFAK, detergents, E. F. Houghton & Co.

CERTI-CIDE, demoting liquid, Certified Chemical & Equipment Co.

CERTIFIED, low-titer neutral soap flakes, Armour & Co.

CERTI-FOAM, upholstery cleaner, Certified Chemical & Equipment Co.

CERTI-LAVE, non-rinse rug shampoo, Certified Chemical & Equipment Co.

CETIC-X, odorless liquid sour, Warco Laboratories

CHACE, automatic washer valves, Chace Valve Div., American Laundry Machinery Co.

CHALLENGER, stokers, Link-Belt Co.

CHAMBERS, laundry and drycleaning extractors, Chambers Extractor Co.

CHAMPION, automatic tying machine, cable cord, Thornton Mills

CHAMPION, Monel press pad, Resilio Co.

CHAMPION, water heater, Crane Co.

CHAMFION CASCADE, laundry washer, American Laundry Machinery Co.

CHANDLER, fur cleaning, repair and storage equipment and supplies, Chandler Sales & Service Co.

CHANDLER, pleating, darning, button-sewing machines, buters, thread, Chandler Machine Co.

CHASE, brass and copper products, Chase Brass & Copper Co.

CHAT, detergent, General Aniline & Film Corp., Special Products Sales Div.

CHATILLON, scales, trucks, John Chatillon & Sons

CHEM-O-FEEDER, constant rate proportioning pump, Proportioners, Inc.

CHEVCO, belt cleaner, Samuel Chevin Co., Inc.

CHEVROLET, motor trucks, Chevrolet Motor Div., General Motors Corp.

CHEX, laundry mildewproofing agent, Cides Laundry

CHEXIT, unit system for production control, Carman & Co., Inc.

CHIC, sizing for wetcleaning, Patek & Co.

CHICAGO, laundry machine, Chicago Dryer Co.

CHICAGO, pearl buttons, Chicago Pearl Button Co.

CHICAGO, stokers, Chicago Automatic Stoker Co.

CHICO, alkali soap builder, Wyandotte Chemicals Corp.

CHIEF, rug equipment, Chief Mfg. Co.

CHIEF, truck tires, Mohawk Rubber Co.

CHIEF 20, handkerchief ironer, Huebsch Div., American Laundry Machinery Co.

CHIEF 25, handkerchief, napkin ironer, Huebsch Div., American Laundry Machinery Co.

CHIFFON, miniature bar soap, Armour & Co.

CHINALINE, quick-drying enamel, U. S. Gutta Percha Paint Co.

CHIORASOL, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CHIORESCO, bleach (calcium hypochlorite), Cowles Chemical Co.

- CHLOREX**, chlorinated solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Co.
- CHLOR-O-CEL**, sweetener, filter powder, Johnsonville
- CHLOR-O-FEEDER**, constant rate proportioning pump, Proportioners, Inc.
- CHLOROSCOPE**, drycleaning soap, J. L. Hardin Co., Inc.
- CHLOROWAX 40**, liquid chlorinated paraffin, Diamond Alkali Co.
- CHLOROWAX 70**, resinous chlorinated paraffin, Diamond Alkali Co.
- CHOCTAW**, soap builder, Wyandotte Chemicals Corp.
- CHROMIX**, refractory material, Quigley Co., Inc.
- CHROMOTEX**, detergent for rug cleaning in the plant, Endriss Chemicals, Inc.
- CHRYSLER-AIRTEMP**, furnaces, boilers, heaters, stokers, Chrysler Corp., Airtemp Div.
- CIDEX**, mildew preventative, deodorant, mothproofing agent, Cider Corp.
- CIMCO**, cement applied to inner surface of tank, Ford Tank Maintenance Co.
- CINCH**, prespatter, Caled Products Co., Inc.
- CINCO**, carpet, laundry and drycleaning tags, black marking ink, Fletcher Mills, Inc.
- CISSELL**, cuff brusher, boards, driers, irons, spotting boards and guns, W. M. Cissell Mfg. Co., Inc.
- CLAIM-SAVER**, F.W.I. bundle separators, F. H. Bonn Co.
- CLAIRANESE**, cover cloth, Lewis National Corp.
- CLARCO**, unit heaters, Clargene Fan Co.
- CLARE**, fluid controls, Clark Mfg. Co.
- CLARK 68**, traps, valves, Clark Mfg. Co.
- CLAYTON**, steam generators, feedwater pump, water heater, Clayton Mfg. Co.
- CLANCUT**, plinkers, Maxant Button & Supply Co.
- CLEAN-O-SHINE**, liquid floor cleaner, Continental Car-Na-Var Corp.
- CLEARBERTAC**, marking tag material, Hollingsworth & Vose Co.
- CLEANSER TAGS**, tags for cleaners, Sidney A. Gies
- CLEARDO**, stripper, Carman & Co., Inc.
- CLEARSIZE**, laundry starch, National Starch Products, Inc.
- CLEARTEX**, laundry starch, National Starch Products, Inc.
- CLEAR-VIEW**, boxes, bags and cellophane products, Clear View Packaging Co.
- CLEAVER-BROOKS**, steam generators, boilers, Cleaver-Brooks Co.
- CLEERZOP**, wetcleaning soap, Package Chemical Co., Inc.
- CLENA-FORM NO. 2**, cleaner, polisher and lubricator for shirt units and body presses, College Chemical Co.
- CLEVELAND**, rug and laundry machinery, Cleveland Rug Cleaning Machinery Co.
- CLYE-O-CRETE**, floor covering and resurfacing material, Midland Paint & Varnish Co.
- CLIMATE CHANGER**, unit air conditioners, Trane Co.
- CLIMAX**, overall marking tags, Rison Mfg. Co.
- CLINTON**, rug sizing, Clinton Foods, Inc.
- CLINTON 5L**, thick boiling starch, Clinton Foods, Inc.
- CLIP-A-TAPE**, gummed tape dispenser, Ideal Stencil Machine Co.
- CLIPPER**, belt-lacing equipment, belt cutters and fasteners, Clipper Belt Lacer Co.
- CLIX**, belt organizer, Tine Savers, Inc.
- CLOMAX**, balanced detergent, Wyandotte Chemicals Corp.
- CLOPAY**, hanger protectors, dress guards, Clipay Corp.
- CLOPAY SANITEX**, garment storage bags, Clipay Corp.
- CLOR**, bleach, Pennsylvania Salt Mfg. Co.
- CLORAFIN**, chlorinated paraffin, Hercules Powder Co.
- CLOROSHEEN**, drycleaning detergent, Riverside Mfg. Co.
- COAGULATOR**, rapid combination mixing chamber and settling basin, Hungerford & Terry, Inc.
- COATES**, electric boiler, Coates Electric Mfg. Co.
- COAT-SEAL**, interior wall coating, Steelcote Mfg. Co.
- CO-AXIAL-FLO**, filter, Zephyr Laundry Machinery Co.
- COBECO**, leather belting, cement, Cornell Belting Co.
- COCHICO**, flat leather belting, belt cement, I. B. Williams & Sons
- COCHRANE**, steam power plant equipment, Cochran Corp.
- COCANUT OIL**, paste soap, National Cleaners Chemical Mfg. Co.
- COCOCAL**, wetcleaning soap, E. F. Drew & Co., Inc.
- COCZOP**, coconut oil, wetcleaning, paste soap, Package Chemical Co., Inc.
- COLCOT**, press padding flannel, Southern Mills, Inc.
- COLDSPRAY**, built soap for cool-water washing, Beach Soap Co.
- COLDWATER NAPTEX**, laundry soap, E. F. Drew & Co., Inc.
- COLD WATER OZONITE**, cold-water soap, Procter & Gamble Distributing Co.
- COLD WATER SUDS**, soap, Lewis National Corp.
- COLGATE FORMULA 10, 20, 25, 33, 40**, neutral soap, sales and granulated built soap, Colgate-Palmolive-Peet Co.
- COLGATE KWIKSOLVE**, laundry soap, Colgate-Palmolive-Peet Co.
- COLLARIGHT**, collar ironer, shirt-folding machine, Key-Tag Checking System Co.
- COLLA-RITES**, collar supports, M. H. Gronsauer Co.
- COLLAR-SMOOTH**, collar smoother, Collar Smooth Sales Co.
- COLONIAL**, blue, Superior Products Co.
- COLOREX**, stripping agent, Stauffer Chemical Co.
- COLORFIXE**, sour, H. Kohnstamm & Co., Inc.
- COLORFLEX**, leather dyes, Eaton Chemical & Dyestuff Co.
- COLORGO**, powdered stripping agent, A. L. Wilson Chemical Co.
- COLORSOUT**, powder color stripper, Washine National Sands, Inc.
- COLOR SPARK**, break powders, Wyandotte Chemicals Corp.
- COLORSUDS**, low temperature soap, H. Kohnstamm & Co., Inc.
- COLORTONE**, industrial soap, Allen B. Wrisley Co.
- COLORZOUR**, sour, Washine National Sands, Inc.
- COLOVOLT**, fluorescent lamps, fixtures, General Luminescent Corp.
- COLON**, wheels, casters, trucks, Colson Corp.
- COLUMBIA**, activated carbon, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Co.
- COLUMBIA**, blindstitch machines, Columbia Sewing Machine Corp.
- COLUMBIA**, boilers, Columbia Boiler Co.
- COLUMBIA**, detergents, chemicals, Pittsburgh Plate Glass Co., Columbia Chemical Div.
- COLUMBIA**, drycleaning extractors, used and rebuilt machinery, puff irons, valves, Columbia Laundry Machinery Co.
- COLUMBIA**, drycleaning unit, solvent saver, Columbia Appliance Corp.
- COLUMBIA**, reweaving, inweaving needles, Columbia Needlework Supply Co., Gearhart Runner Knitter
- COLUMBIA BF**, puff iron, Columbia Laundry Machinery Co.
- COLUMBIA GEM**, extractor, Columbia Laundry Machinery Co.
- COMBINATION OFFSET**, silk finishing press, Excelator Machinery Co.
- COMBINER CLIPS**, assembling clips, Larton Products Co., Inc.
- COMBINEITS**, laundry nets and fabrics, Davis Mills Inc.
- COMBINO**, ironer padding nets, Tingle, Brown & Co.
- COMBO**, combination checking desk, bag storage unit and garment bagger, Rodin Machinery Co., Div. Rodin Bros.
- COMBUSTIONEER**, automatic coal burner, humidifiers, Steel Products Engineering Co.
- COMBY-R**, laundry nets, Davis Mills Inc.
- COMET**, electric hoist, Chisholm-Moore Hoist Machinery Co.
- COMET**, extractors, Hammond Laundry-Cleaning Machinery Co.
- COMET**, washer, Henriel Laundry Machinery Co.
- COMET CHEMICAL**, CARTRIDGE, respirators, Mine Safety Appliance Co.
- COMMERCIAL**, soap, Rome Soap Mfg. Co.
- COMPACT**, drycleaning machine, Ayr-Mor Machinery Corp.
- COMPACT**, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- COMPAR**, safety gloves, aprons, gasket material, Resistor Corp.
- COMPLETE**, laundry soaps, Fry Bros. Co.
- COMPO**, fiber marking tags, Fleischer Mills, Inc.
- COMPO**, marking tags, U. S. Marking Tag Co.
- COMPOSITION 33, 91**, soap builders, Turco Products, Inc.
- COMPOUND 40**, general formula spotter, Keystone Aniline & Chemical Co., Inc.
- CONCO**, stokers, Conco Engineering Works, Div. H. D. Coakley & Co.
- CONDOR**, hose, belting, rolls, Raybestos-Manhattan, Inc.
- COND-O-VAC**, return-line vacuum pumps for heating systems, Chicago Pump Co.
- CON-D-TEX**, mothproofing agent, Research Laboratories Corp.
- CONNERSVILLE-CHIEF**, rug and carpet cleaning equipment, Chief Mfg. Co.
- CONTINENTAL 18**, self-polishing heavy-duty belt and floor wax, Continental Car-Na-Var Corp.
- CONTINUOUS FLOW**, washer, Bill Glover, Inc.
- CONTIN-U-RAIL**, speed rail, White Machine Co.
- CONVERTIBLE**, steel shelving, Berger Mfg. Div., Republic Steel Corp.
- COOK EXTRACTETTE**, pony extractor, Cook Machinery Sales Co.
- COOK'S**, lubricants, Adam Cook's Sons, Inc.
- COOK WASHETTE**, open-end washers, Cook Machinery Sales Co.
- COOLAIR**, fans, ventilating systems, American Coolair Corp.
- COOLIDGE**, pad savers, Tak-O Products Co.
- COOPER**, pressing stands, bucks, tables, iron carriers, H. F. Cooper & Co.
- COOPER-BESSEMER**, compressors, diesel and gas engines, Cooper-Besmer Corp.
- COORDINATED PROCESS CONTROL**, automatic control, Bristol Co.
- COPALITE**, interior varnish, U. S. Gutta Percha Paint Co.
- COPES**, high and low alarms, controls, regulators, governors, valves, Northern Equipment Co.
- COPR-TUBE**, copper tube fittings, Dresser Mfg. Div., Dresser Industries, Inc.
- CORONET**, 18-pound synthetic drycleaning unit, Detrex Corp.
- CORRIDOR**, drinking fountains, Crane Co.
- CORWITH**, drinking fountains, Crane Co.
- COSMOLINE**, rust preventatives, E. F. Houston & Co.
- COTTAGE**, steel direct-fired water heater, oil-gas, Kewanee Boiler Corp.
- COTTONBLOSSOM**, laundry textiles, Southern Mills, Inc.
- COUNTERBOY**, carton and package taping machines, Better Packages, Inc.
- COV-KEZ**, garment hanger shields, Larton Products Co., Inc.
- COVERDUX**, ironer covering, Tingle, Brown & Co.
- CRAMER**, timers, R. W. Cramer & Co., Inc.
- CHAVENETTE**, water repelling preparation, Chavennette Co., U. S. A.
- CREA-FINISH**, starch lubricant, Lewis National Corp.
- CRESCENT**, belt fasteners, plates, rivets, rivet extractors, Crescent Belt Fastener Co.
- CRESCENT**, laundry chemical specialty items, Hood Chemical Co., Inc. Crescent Div.
- CRESTENT**, try-cocks, Wright-Austin Co.
- CRESTEX**, sour, Hood Chemical Co., Inc. Crescent Div.
- CRISCRACKS**, clothes racks, E. L. Chrisman Co., Inc.
- CROSBY**, gauges, valves, Crosby Steam Gauge & Valve Co.
- CROWN**, electric-steam irons, steam generators, electric irons, Crown Mfg. Co.
- CROWN**, laundry nets, Davis Mills Inc.
- CRUCIBLE**, stainless steel laundry equipment, Crucible Steel Co. of America
- CRUSADER**, nets, cover cloth, double-face flannel, cover duck, Egan Cotton Mills
- CRYSTALLITE**, fluorescent lighting, Crystallite Co., Inc.
- CRYSTAL VICTOR**, laundry starch, Keefer Starch Co.
- CRYSTAMET**, sodium metasilicate, Cowles Chemical Co.
- CUB JR.**, steam trap, Wright-Austin Co.
- CUFF BRUSHER**, rotary cuff cleaner, Excelator Machinery Co.
- CUFF TACKER**, sewing machine, Chandler Machine Co.
- CULLIGAN**, water softener service, Culligan Zeolite Co.
- CUMMINGS-LANDAU**, laundry equipment, Cummings-Landau Machinery Co., Inc.
- CURRY**, feed ribbons, J. W. Curry Co.
- CUSTOM**, electric steam generators, Custom Engineering Co.
- CUSTOM**, shoulder finisher and shaper, Hopkins Equipment Co.
- CUTLER-HAMMER**, electrical equipment, motor control, Cutler-Hammer, Inc.
- CYANEGG**, sodium cyanide, E. I. du Pont de Nemours & Co., Inc.
- CYCLONE**, prespatter, A. F. Wolke Co.
- CYCLO**, heavy prespatter, R. R. Street & Co., Inc.
- CYCLONE**, exhaust head, Wright-Austin Co.
- CYCLONE**, hand power hoist, Chisholm-Moore Hoist Corp.
- CYCLONE**, washer, Henriel Laundry Machinery Co.
- CYCLONE CONVEYORS**, pneumatic conveyors, Eastern Cyclone Conveyor System, Inc.
- CYCLOPS**, needle bearing, Roller Bearing Co. of America
- CYCLOTHERM STEAM GENERATORS**, package type boiler, automatic oil or gas fired, Cyclotherm Corp.
- CYCLON**, wetcleaning detergent, Patek & Co.

## D

- DEKL**, concentrated liquid stripper and reducing agent, Carman & Co., Inc.
- DA-CO**, chemicals, cleaners, Davis-Weil Mfg. Co.
- DAHLBERG**, speed-rail conveyors, Dahlberg Machinery Co.
- DAILY DELIVERY**, marking tags, Pittsburgh Tag Co.
- DANITEX**, wetting agent, Hercules Powder Co.
- DAMASCITE**, ferrous-base machine parts, Amplex Div., Chrysler Corp.
- DAMIT**, pipe joint compound, Quigley Co., Inc.
- DAMP-TEX**, enamel, Steelcote Mfg. Co.
- DANAL**, dyeing process for garments, leather and rugs, Commercial Dye Works
- DANDUX**, canvas baskets, hampers, bags, trucks, C. R. Daniels, Inc.
- DAFEX**, mothproofing compound, Davison Chemical Co.
- DARCO**, activated carbon, Atlas Powder Co., Darco Dept.
- DARNELL**, wheels, casters, Darnell Corp.
- DATERETTE**, dating machine, American Numbering Machine Co.



- DAVIS, controls, regulators, valves, Davis Regulator Co.
- DAVIS, first-aid and emergency equipment, Davis Emergency Equipment Co.
- DAVIS, shirt unit, Prosperity Co., Inc.
- DAVIS, sieve formers, Davis Specialties, Inc.
- DAVIS NETS, laundry nets, Davis Mills Inc.
- DAVIS OVERALL TAG, brass permanent marker, Keyes-Davis Co.
- DAVIS RAY, press plates, Davis Specialties, Inc.
- DAVIS TAG, permanent overall marker, Keyes-Davis Co.
- DAVOTEX, leather cleaning and re dyeing, C. O. D. Cleaning & Dyeing Co.
- DAY-SOL, chlorinated solvent drycleaning soap, Davies-Young Soap Co.
- DC FILTROL, adsorbent filter powder, Filtrol Corp.
- DEAN HILL, centrifugal industrial power pumps, steam turbines, Dean Hill Pump Co.
- DECAL, water softener, Washine National Sands, Inc.
- DEEP ROCK, naphthas, petroleum solvents, Big Ben Petroleum Products Co.
- DEFENDER, regulators, recording instruments, Defender Instrument & Regulator Co.
- DELIBLE, dissolves indelibles, Warco Laboratories
- DE-LIMER, lime solvent, E. F. Drew & Co., Inc.
- DELIVER-ALL, delivery truck, Marmon-Herrington Co., Inc.
- DELUXE, sizing, Huron Milling Co.
- DE LUXE, uniforms, Shane Uniform Co., Inc.
- DEMING, pumps, Deming Co.
- DEMOTHOL, mothproofing solution, Signal Chemical Mfg. Co.
- DENOMINATOR, tabulating machines, Denominator Company, Inc.
- DEODOR, deodorant, Patek & Co.
- DESOIL, break powder, Cowles Chemical Co.
- DESTAINER, penetrating soap, A. L. Wilson Chemical Co.
- D'ESTE, automatic regulating valves, D'Este Div., American Chain & Cable Co., Inc.
- DETECTO, scales, Detecto Scales, Inc.
- DETERGENT CL, drycleaning soap for synthetic solvents, Allen & Vickers, Inc.
- DETERGENT N, drycleaning soap, Allen & Vickers, Inc.
- DE-TER-GO, powder floor cleaner, Continental Car-Na-Var Corp.
- DETERSIN, detergent for use with chlorinated solvents, Riverside Mfg. Co.
- DETEX, watchmen's clocks, Detex Watchlock Corp.
- DETRIX, drycleaning equipment, solvent still, Detrex Corp.
- DETROIT, belt lacers, belt cutters, Detroit Belt Lacer Co.
- DETROIT, valves, W. M. Chace Co.
- DEVERE SPEEDUX DIPMASTER, water-repellent dip tank, Devere Co.
- DEVILBISS, compressors, spray guns, hose, Devilbiss Co.
- DEXTER, valve reseating machine, Leavitt Machine Co.
- D-FLOX, laundry detergent, Essential Chemicals Co.
- DIAL, miniature bar soap, Armour & Co.
- DIAL-O-TIME, laundry formula timer, Norman & Co.
- DIAMO, stripper, stain remover, Lewis National Corp.
- DIAMOND, ball, revolving and swing joints, Diamond Metal Products Co.
- DIAMOND, chains, couplings, Diamond Chain Co., Inc.
- DIAMOND, laundry chemicals, Diamond Alkali Co.
- DIAMOND, water treatment compounds, Oshkosh Filter & Softener Co.
- DIAMOND BLUE, laundry bluing, Diamond Alkali Co.
- DIAMOND DRYCLEANER, chlorinated cleaning solvent, Diamond Alkali Co.
- DIAMOND T, motor trucks, Diamond T Motor Car Co.
- DI-AQUA, anionic wetting agent, Diamond Alkali Co.
- DIASAN, diaper sanitizer, H. Kohnstamm & Co., Inc.
- DIAZOCEL, for dyeing Celanese and acetate silks, American Aniline Products, Inc.
- DIAZYME, enzymic digester, Jacques Wolf & Co.
- DICALITE, anti-static filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE 7, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE SPEEDPLUS, straight distamaceous filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE SWEETEX, sweetener, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DIEM, electric motors, generators, fans, Diel Manufacturing Co., Div. Singer Mfg. Co.
- DIVEN, digester, John P. Lynch Co.
- DIGESTALL, digestive agents, Package Chemical Co., Inc.
- DIGESTITT, enzymic digester, Riverside Mfg. Co.
- DIOXY, drycleaning spotters, chemicals, Preston T. Rhodes
- DIPMASTER, water-repellent dip tank, Devere Co.
- DIP-O-MATIC, water-repellent dip tank, Hopkins Equipment Co.
- DISCOVERY, handkerchief buffer, Huebsch Div., American Laundry Machinery Co.
- DISPERSO, silk and wool drycleaning soap, Spis Products Co.
- DIS-PER-SOL, break powder, Thompson-Hayward Chemical Co.
- DISPLAY-IT, shirt display cases, Time Savers, Inc.
- DISTILLENE, drycleaning soap, Keystone Aniline & Chemical Co.
- DIVCO, delivery vehicles, Divco Corp.
- DIX-E-HOLD, hangers, Marion Mfg. Co.
- DIXIE, aprons, Minnesota Chemical Co.
- DIXIE, laundry nets, Southern Mills, Inc.
- DIXO, detergents, drycleaning soap, grease, oil and paint removers, prespotters, wetcleaning soap, Dixco Co.
- DIXON STEAM KING, Scotch marine boiler, Dixon Boiler Works
- DIXON WATERWALL, Scotch marine boiler, Dixon Boiler Works
- DIZOLV-IT, oil remover, Kliegman Bros., Inc.
- DOBBY, mothproofing concentrate, Jay-Dee, Inc., Mfg. Chemists
- DOCTOR BOILER, boiler water treatment compound, Doctor Boiler, Inc.
- DODGE JOB-RATED TRUCKS, motor trucks, Dodge Div., Chrysler Corp.
- DOG TEX, treatment for cat and dog stains, Dog Floor Machine Co.
- DORAN, machinery, Hatters Supply House, Inc.
- DOUBLE CHECK, zeolite water softener, Elgin Safe Co.
- DOUBLE DUTY SOUR, sour and blue combination, Diamond Alkali Co.
- DOUBLE-VALVE, blanket brusher, American Drycleaning Co.
- DOUBLEWEAR, apron duck, cover cloth, nets, Lewis National Corp.
- DOUGLAS, corn starch, thin boiling starch, Pen-Ford Co.
- DOVER DYPERCAN, deodorized diaper container, Dover Stamping Co.
- DOWCLENEX, synthetic cleaning solvent, Dow Chemical Co.
- DOWFUME, fumigant, Dow Chemical Co.
- DOW-PER, synthetic solvent, perchlorethylene, Dow Chemical Co.
- DRAIN, cellars, drainers, Yeomans Bros. Co.
- DRAIN-TROL, condensation drainage device, Fred H. Schaub Engineering Co., Inc.
- DRAVO COUNTERFLO, heater, Dravo Corp.
- DRAX, water repellents, S. C. Johnson & Sons, Inc.
- DRESS-N-SPORT, dress and sport shirt folding machine, G. H. Bishop Co.
- DRESSER, clamps, couplings, fittings, Dresser Mfg. Div., Dresser Industries, Inc.
- DRESSMASTER, steam-air garment finisher, Hopkins Equipment Co.
- DREW, ironing board, E. F. Drew & Co., Inc.
- DREW 90 PLUS POWDER, soap plus medium pH alkali builder and water conditioner, E. F. Drew & Co., Inc.
- DRI-CLEEN, carbon tetrachloride solvent, Detrex Corp.
- DRI-BORD, steam-heated press boards, Kisco Boiler & Engineering Co.
- DRI-BRITE GLOSS, Persian lamb luster, Nycco Products Co.
- DRICO, air cleaners, filters, separators, strainers, Drico Industrial Corp.
- DRIEX, water-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DRI-FOAM, rug and furniture shampoo, Crossland Mfg. Co., Inc.
- DRI-HAND, dampener and moisture regulator, J. W. Steele & Co.
- DRI-RINSE, drycleaners' sour, Johnson Chemical Industries, Inc.
- DRIREAL, shirt bands, Drisreal Co.
- DRI-SHEEN, alkaline detergent, Adco, Inc.
- DRI-SIZE, synthetic resin sizing for use in petroleum solvent, Eaton Chemical & Dyestuff Co.
- DRI-STEAM, air cleaners, filters, separators, strainers, valves, Drico Industrial Corp.
- DRISYN, detergent cleaning soap, E. F. Drew & Co., Inc.
- DRI-X, detergents, Spis Products Co.
- DRITHERM, infra-red heat lamps, North American Electric Lamp Co.
- DRI-TOP, ironing board, G. H. Bishop Co.
- DRUG-CARD, powdered hypochlorite bleach, E. F. Drew & Co., Inc.
- DRUM MASTER, fur cleaning drum, Walter Haerdtel Co.
- DRUMFLAKE FLAKE SOAP, laundry soap, Standard Soap Co. of Camden
- DRUZOIL, heavy duty detergent, E. F. Drew & Co.
- DRYCLEAN, spot remover, E. I. du Pont de Nemours & Co., Inc.
- DRYCO, water spray gun, steam iron, valves, steam condensers, Dryco Corp.
- DRYCO-CARD, intensified drycleaning detergent, Carman & Co., Inc.
- DRY MASTER, clothes tumbler, National Dryer Mfg. Co.
- DRYMASTER, drying cabinets, Hopkins Equipment Co.
- DRY-O-MATIC, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- DRY-O-WET, spot remover, Slater-Robbins Co.
- DRYSET, vacuum systems, Lamson Corp., Blower Div.
- DRY-SOAP, drycleaning soap, Murphy Sales Co.
- DUALCRAFT, press pads, Fadcraft Corp.
- DUBLECOTE MULTI-SHINGLES, asphalt roofing shingles, Barrett Div., Allied Chemical & Dye Corp.
- DUBLIFE, replacements for collars, cuffs, neck bands & trouser pockets, Dublife Collar Co.
- DUCCO, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUFFEL, laundry nets, Southern Mills, Inc.
- DUKE, trouser guards, suit, dress and draps hangers, Memphis Hanger Co. and Pittsburgh Hanger Co.
- DULUX, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUNAWAY, spot removers, digesters, H. D. Dunaway & Co.
- DUO, ironer, Zephyr Laundry Machinery Co.
- DUODEX, carpet antiseptic, Carman & Co., Inc.
- DUO-TEX CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- DUPLEX, collar supports, Time Savers, Inc.
- DURABILT, laundry and drycleaning washer, Gardner Machinery Corp.
- DURABLE, fiber boxes and shipping cases, Durable Fibre Sample Case Co.
- DURABLE, wire presboard for velvet and nap fabric materials, American Presboard Co.
- DURACAL, covers and padding combinations, Patek & Co.
- DURAFLEX, stokers, Canton Stoker Corp.
- DURO, blow-off valve, Lunkenheimer Co.
- DURO, press covers, R. Lally Co.
- DUROIL, fiber sheet packing, Raybestos-Manhattan, Inc.
- DUROTEX, press covers, R. Lally Co.
- DUSTFOE, respirators, Mine Safety Appliance Co.
- DUST STOP, air filters, Owens-Corning Fiberglass Corp.
- DU-TEX, stain remover, Warco Laboratories
- DUTTON, boilers, pumps, Hampman-Dutton Co., Dutton Boiler Div.
- DUX COTE, water repellent, Eaton Chemical & Dyestuff Co.
- DUX-IT, solvent-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DWYER, gauges, indicators, F. W. Dwyer Mfg. Co.
- DYCO-SIZE, garment retexturing compound, Davies-Young Soap Co.
- DYDROSITE, stripping agent, Nu-Pro Mfg. Co.
- DYE-CRETE, penetrating concrete color hardener, Wilbur & Williams Co.
- DYNAMIC DUMPER, unloading washer, Miller Laundry Machinery Co.
- DYNASOPE, concentrate, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
- DY-100, liquid drycleaning soap, Davies-Young Soap Co.
- DYPERCAN, sanitary diaper cans, Dover Stamping Co.
- DYSO, wetcleaning silk and wool soap, Davies-Young Soap Co.
- DYSOLVO, soap, Davies-Young Soap Co.
- DY-SULPH, synthetic wetcleaner, Davies-Young Soap Co.
- DYTEX RUSTERASER, rust remover, Dytex Chemical Co.

## E

- EFTT, electric power fork truck, Lewis-Shepard Products, Inc.
- EASTON, woven cotton belting, Victor Balata & Textile Belting Co.
- EASY-ON, wood strut hanger, Nagel Coat Hanger Co.
- EASY PRESS, manually operated drycleaning press, Goldman Pressing Machine Corp.
- ECCO, blues, ironer oil, spot removers, repellents, prespotters, tints, soaps, Eaton Chemical & Dyestuff Co.
- ECCODUX, water repellent, Eaton Chemical & Dyestuff Co.
- ECCOFORM, spot remover, Eaton Chemical & Dyestuff Co.
- ECCO KOBO, odor neutralizer, Eaton Chemical & Dyestuff Co.
- ECCOSIZE, textile finish, Eaton Chemical & Dyestuff Co.
- ECLIPSE PIONEER, flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.
- ECO, hand cream, Davis Emergency Equipment Co., Inc.
- ECO, watchmen's clocks, Detex Watchlock Corp.
- ECONO, drycleaning soap, Package Chemical Co., Inc.
- ECONO, sour, Diamond Alkali Co.
- ECONO-CAL, drycleaning detergents, Caled Products Co., Inc.
- ECONOFEEED, boiler feed pump and condensate return system, Hampman-Dutton Co., Dutton Boiler Div.
- ECONOMASTER, boiler, Hampman-Dutton Co., Dutton Boiler Div.
- ECONO-MATIC, drycleaning unit, Prosperity Co., Inc.
- ECONOMIC, boilers, Erie City Iron Works
- ECONOMIST, boiler, Hampman-Dutton Co., Dutton Boiler Div.
- ECONOMITE REGISTERS, autographic registers, Autographic Register Co.
- ECONOMIZER, boiler, Hampman-Dutton Co., Dutton Boiler Div.
- ECONOMY, drycleaner's bag, Diem & Wing Paper Co.

**ECONOMY**, hanger bar covers, Phoenix Products Co.  
**ECONOMY**, hanger forming machine, Economy Hanger Machine & Equipment Co.  
**ECONOMY**, marking pins, Keyes-Davis Co.  
**ECONOMY**, sour, Superior Products Co.  
**ECONOMY**, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.  
**ECONO-SCOOP**, steel weighing hand scoop, Blenco Co.  
**ECONOTHERM**, generators, Hapman-Dutton Co., Dutton Boiler Div.  
**ECON-O-VEYOR**, laundry conveyors, Shuler Conveyors, Inc.  
**EDWARDS EXCHANGER**, de-ionized water unit, Hungerford & Terry, Inc.  
**EGAN**, ironer and press padding, feed ribbons, Egan Cotton Mills  
**EGRY ELITE**, register, business system, Egr Register Co.  
**1838**, marking ink, liquid laundry blue, Eaton Chemical & Dye-Stuff Co.  
**886**, strong soap formula, R. R. Street & Co., Inc.  
**EJECT-O-VAC**, self-cleaning vacuum cleaner, Continental Car-Na-Var Corp.  
**ELAINE**, red oil (oleic acid), Emery Industries, Inc.  
**ELASTIGUM**, roof cement, roof coating, Barrett Div., Allied Chemical & Dye Corp.  
**ELCOO**, garment press, steam puffer, spotting and finishing machine, E. L. Chrisman Co., Inc.  
**ELCONITE**, standard green sand zeolite, Elgin Softener Corp.  
**ELDURITE**, synthetic zeolites, Elgin Softener Corp.  
**ELECTRO**, water conditioner, Stomac Engineering Co., Inc.  
**ELECTROCLENE**, drycleaning washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**ELECTROFLUID**, motorized hydraulic drive, Link-Belt Co.  
**ELECTRO LIFT HOISTS**, hoists, Electro Lift, Inc.  
**ELECTROMANUAL**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**ELECTROMATIC**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**ELECTRO-MEND**, mending machines and tabs, Simmons Machine Co.  
**ELECTRO NEUTRALIZER**, water-conditioning apparatus for steam boilers, Electro Chemical Engineering Co., Inc.  
**ELECTRUNITE**, stainless steel tubing, Republic Steel Corp.  
**ELGIN**, water softening and conditioning equipment and chemicals, water filters, Elgin Softener Corp.  
**ELITE**, ironer covercloth, Tingle, Brown & Co.  
**ELITE TRU-PAK**, autographic register, Egr Register Co.  
**ELLIS**, laundry machinery, Ellis Drier Co.  
**ELMO**, stripper, A. L. Wilson Chemical Co.  
**EMERALD**, felt, fannel, Pittsburgh Waterproof Co.  
**EMERSOL**, stearic acid, Emery Industries, Inc.  
**EMPIRE**, firebrick, A. P. Green Fire Brick Co.  
**EMULSIVE**, wheat starch, Keefer Starch Co.  
**ENDOR**, steam tumbling, Hammond Laundry-Cleaning Machinery Co.  
**ENDURO**, cold-spring press pad, Zeidler Mfg. Co.  
**ENDURO**, laundry detergents, chemicals, Aurora Manufacturing Co.  
**ENDURO**, steam, steel, Republic Steel Corp.  
**ENDURO**, wetcleaning sour, Aurora Manufacturing Co.  
**ENERGETIC**, wetcleaning synthetic detergent, Armour & Co.  
**ENGINEAIR**, compressor, Westinghouse Air Brake Co., Industrial Products Div.  
**ENZ-O-SAN**, powdered digester, Huntington Laboratories, Inc.  
**ENZYMERSE**, enzymic digester, George E. Mead Co.  
**EQUALIZER**, valve by-pass, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.  
**ERAD-INK**, ink remover, A. L. Wilson Chemical Co.  
**ERADOL**, color stripper, National Cleaners Chemical Mfg. Co.  
**ERASINE**, ink remover, Lewis National Corp.  
**ERIE CITY**, boilers, underfed stokers, Erie City Iron Works  
**ERIFON**, flame retardant, E. I. du Pont de Nemours & Co., Inc.  
**ERMCO**, rug conveyor and equipment, American Laundry Machinery Co.  
**ERMINE**, starch, Washine National Sands, Inc.  
**ERUSTICATOR**, rust stain remover, Pennsylvania Salt Mfg. Co.  
**ERUSTO**, spot and stain remover, dry and wet-cleaning soaps, laundry sour, Pennsylvania Salt Mfg. Co.  
**ERUSTO-CETIC**, sour for wetcleaning, Pennsylvania Salt Mfg. Co.  
**ERUSTOCIDE**, laundry sour, Pennsylvania Salt Mfg. Co.  
**ERUSTO DDT EMULSION**, insecticide, Pennsylvania Salt Mfg. Co.  
**ERUSTO ENERGEX**, drycleaning products, Pennsylvania Salt Mfg. Co.  
**ERUSTOLIN**, laundry sour, Pennsylvania Salt Mfg. Co.  
**ERUSTO LIQUID-BLUE**, laundry blue, Pennsylvania Salt Mfg. Co.  
**ERUSTO-MAX**, laundry sour, Pennsylvania Salt Mfg. Co.  
**ERUSTO-RAY**, laundry sour, Pennsylvania Salt Mfg. Co.

**ERUSTO SALTS**, laundry sour, Pennsylvania Salt Mfg. Co.  
**ESIST-SOL**, laundry sour, Pennsylvania Salt Mfg. Co.  
**ESCO**, high pH soap builder, Cowles Chemical Co.  
**ESCOFOS**, soap regenerator, Cowles Chemical Co.  
**ESCOLITE**, medium pH soap builder, Cowles Chemical Co.  
**ESCOLLOID**, medium pH soap builder, Cowles Chemical Co.  
**ESOL**, 77, high pH soap builder, Cowles Chemical Co.  
**ESOMCO**, liquid blue, Cowles Chemical Co.  
**ESCO-SAVON**, hot-water soap (east of Rockies only), Cowles Chemical Co.  
**ESPECCO**, solvent, starches, Superior Products Co.  
**ESSO BOND**, air setting, high temperature cement, Ramitte Co., Div. S, Obermayer Co.  
**ETERMIT**, asbestos-cement sheets for roofs and sidewalls, Ruberoid Co.  
**ETHRO**, rug and carpet shampoo, North Coast Chemical & Soap Works  
**EULANS**, mothproofing agents, General Dyestuff Corp.  
**EUREKA**, belt dressing, Standard Oil Co.  
**EUREKA**, marking pins, Keyes-Davis Co.  
**EUREKA**, wetcleaning laundry powder, North Coast Chemical & Soap Works  
**EVALIZED**, rust-resistant process, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.  
**EVALV**, stainless steel, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.  
**EVALPAK**, valve padding, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.  
**EVALTHRUST**, ball bearing, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.  
**EVAPO-GAS**, moth fumigant, Nycco Products Co.  
**EVERDUR**, copper silicon alloy, American Brass Co.  
**EVERJET**, paint, Barrett Div., Allied Chemical & Dye Corp.  
**EVERLASTING**, valves, Everlasting Valve Co.  
**EVER-LITE**, lighting fixtures, Ever-Lite Co.  
**EVER MOIST**, dampening device, Time Savers, Inc.  
**EVERREADY**, hat and garment boxes, Automatic Paper Box Corp.  
**EVERWEAR**, double-face padding, Tingle, Brown & Co.  
**EVINGRAY**, hard-surfaced inlay, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.  
**EWART**, detachable link belt chains, Link-Belt Co.  
**EWING PONY**, wood pony laundry washer, R. Ewing & Sons, Inc.  
**EXACTO**, pre-numbered marking tags, hanger racks, loop assembly hooks, clips, belt wheel, rack drivers, Perfection Products Co. & Identification, Inc.  
**EXCEL**, paint and grease spotter, Murphy Sales Co.  
**EXCELAL**, starch finish, Eaton Chemical & Dye-Stuff Co.  
**EXCELL-O**, cellophane tying ribbon, Freyberg Bros.-Straus, Inc.  
**EXCELSIOR**, ladders and steam spotting, finishing equipment, Excelsior Machinery Co.  
**EXHAUSTEAM**, steam purifier, Morehead Manufacturing Co.  
**EXIDE**, storage batteries, Electric Storage Battery Co.  
**EXIDUST**, industrial vacuum cleaners, Lamson Corp.-Blower Div.  
**EXPANDO**, collar supports, Time Savers, Inc.  
**EXPRESS-LINE**, conveyors, B & G Machinery Co., Inc.  
**EXSIZE-T**, starch removing desizing agent, Pabst Sales Co.  
**EX-SOIL-O**, drycleaning soap, Davies-Young Soap Co.  
**EXTRACTETTE**, extractor, Cook Machinery Sales Co.  
**EXTRACTOR**, leather belting, Webb Belting Co.  
**EXTRA SOLUBLE COLORFIXE**, soaps, H. Kohnstamm & Co., Inc.  
**ENZYMIE**, enzymic spotting agent, Pabst Sales Co.  
**E-Z IRON**, finishing board pads, Fullo Corp.  
**E-Z SQUEEZE**, water spray gun, Dryco Corp.  
**EZ OFF**, metal cleaner, Boston Clip & Tag Co.  
**EZY**, drycleaning press, Prosperity Co., Inc.  
**EZY-KLEEN**, strainers for pumps and pipelines, Blackmer Pump Co.

## F

**F.B.**, loose-leaf holders, Speed Products Co., Inc. F & E, underfed stokers, Flynn & Enrich Co.  
**FF**, tickings, Freund, Freund & Co.  
**FABRICARE**, drycleaning finishing equipment, Dryco Corp.  
**FABRICHEAD**, puff irons, Excelsior Machinery Co.  
**FABRICOL**, drycleaning soap, R. R. Street & Co., Inc.  
**FABRIT**, heat-sealing, mending tape, Madison Products Co.  
**FABTEX**, water repellent, Merson Products Co.  
**FABTEX**, water repellent, Spis Products Co.  
**FAIRBANKS-MORSE**, pumps, motors, engines, stokers, Fairbanks Morse & Co.

**FAMILY WORK STARCH**, laundry starch, Keefer Starch Co.  
**FAN-AIR**, automatic gas burners (mechanical draft), Lee B. Mettler Co.  
**FAN-PAC**, packaged ventilation, DeBoerth Fan Div., American Machine & Metals, Inc.  
**FANTOM-FAST**, invisible identification system, National Marking Machine Co.  
**FASEL**, prespotter, Package Chemical Co.  
**FASTOCENE**, textile finishes and assistants, American Aniline Products, Inc.  
**FEATHER**, air compressor valves, Worthington Pump & Machinery Corp.  
**FED TEX**, industrial wiping towels, Federal Textile Corp.  
**FELAN**, durable water-repellent finish, E. I. du Pont de Nemours & Co., Inc.  
**FEND**, protective hand cream, Mine Safety Appliance Co.  
**FENT-ONAMEL**, labels, Fenton Label Co.  
**FERA-FLOW**, non-slip paint, American Abrasive Metals Co.  
**FERRERNEW**, angle and globe valve, Lunkenheimer Co.  
**FERROSAND**, iron-removal filters, Hungerford & Terry, Inc.  
**FERRON**, non-slip flooring composition, American Abrasive Metals Co.  
**FIBERCOET**, roof covering, Midland Paint & Varnish Co.  
**FIBERGLAS**, cloth, insulations, etc., Owens-Corning Fiberglass Corp.  
**FIELD**, draft controls, Conco Engineering Works, Div. H. D. Conkey & Co.  
**FIELDEN**, liquid level control instrument, Fielden Instrument Corp.  
**50-FOLD**, concentrated drycleaning soap, National Cleaners Chemical Mfg. Co.  
**FILPRO**, vacuum still, U. S. Hoffman Machinery Corp.  
**FILTEAMASTER**, solvent filter, Hopkins Equipment Co.  
**FILTER-SOL**, liquid drycleaning soap, Davies-Young Soap Co.  
**FILTERSTILL**, filters, Martin Equipment Co.  
**FILTROL DC**, adsorbent filter aid, Filtril Corp.  
**FILTROLENE**, synthetic dry cleaning soap, Slater-Hobbins Co., Inc.  
**FILTROLN**, electronic filter, U. S. Hoffman Machinery Corp.  
**FILTROSAN**, dry cleaning soap, stoddard solvent, Slater-Hobbins Co., Inc.  
**FINISH 21**, dye fixer, Apex Chemical Co., Inc.  
**PINNELL**, starch reclaimers, Lewis National Corp.  
**FIREBOX**, coal oil, gas stokers, high & low pressure, Kewanee Boiler Corp.  
**FIRECRITE**, refractory cement, Johns-Manville  
**FIREITE**, asbestos furnace cement, Johns-Manville  
**FIRE/TE**, safeguards, controls, Combustion Control Corp.  
**FIREFLY**, asbestos pads, Firefly Asbestos Products Co.  
**FIT-ALL**, sleeve forms, Davis Specialties, Inc.  
**FITFOLD**, boiler return systems, U. S. Hoffman Machinery Corp.  
**S-L**, laundry starch, Clinton Foods, Inc.  
**FLAG-TAGS**, special tags, Strype-Lenoff & Co.  
**FLALON**, nylon flannel for press pads, Burgess-Berliner Associates  
**FLAME CHEK**, flameproofing agent, Chek Products, Inc.  
**FLAME PROOF XWX**, flameproofing agent, Apex Chemical Co., Inc.  
**FLAMONEL**, Monel press pads, Resillo Co.  
**FLAN-L-LESS**, metal press pads, X. S. Smith, Inc.  
**FLASH-O-MATIC**, marking machine, Flash-Fast Div., Louis Marks, Inc.  
**FLETCHER**, extractor, Fletcher Works, Inc.  
**FLEXCO**, belt fasteners, Flexible Steel Lacing Co.  
**FLEXFORM**, garment shaper-drier, Tri-Pak Machinery Service, Inc.  
**FLEXI-BILT**, bins, Berger Mfg. Div., Republic Steel Corp.  
**FLEXIMATIC**, linen folder, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**FLEXITE**, rubber buckets, dippers, funnels, B. F. Goodrich Co.  
**FLEXOL**, starch, Washine National Sands, Inc.  
**FLEXOL DOP**, plasticizer to soften hardened waterproof innerlinings, Eaton Chemical & Dye-Stuff Co.  
**FLEX V**, belt fasteners, Flexible Steel Lacing Co.  
**FLINT**, neutral high-titer soap chip and powder, Armour & Co.  
**FLOATS OFF**, liquid synthetic detergent, J. Holcomb Mfg. Co.  
**FLOORKOTE**, enamel, Tropical Paint & Oil Co.  
**FLOORMASTER**, trucks, Lewis-Shupard Products, Inc.  
**FLOOR-SAN**, floor cleaning compound, Huntington Laboratories, Inc.  
**FLOOR-VEYOR**, permanent installation power belt conveyor, Rapid-Standard Co., Inc.  
**FLOWRATER**, solvent meter for filters, Fischer & Porter Co.  
**FLUFFED EDGE**, padding cotton, Pittsburgh Waterproof Co.  
**FLUORUM**, fluorescent fabric finish, Beach Soap Co.  
**FLUSH-KLEEN**, sewage ejectors, Chicago Pump Co.  
**FLUTRON**, ruffle ironer, Maxant Button & Supply Co.



## G

FOAM-ASBESTOS, foam rubber laminated dry-cleaning pad, Gustin-Kramer Co.  
 FOAMITE, fire extinguishers, American-La France Foamite Corp.  
 FOAMONEL, sponge press pads, Resillo Co.  
 FOAMSUDS, liquid coconut soap, E. F. Drew & Co., Inc.  
 FOLD-A-WAY, shirt baskets and trucks, Time Savers, Inc.  
 FOLD-KING, shirt-folding device, Time Savers, Inc.  
 FOLDMASTER, flatwork folder, American Laundry Machinery Co.  
 FOLDOMAT, portable small flatwork folding, stacking, counting machines, Pioneer Development Co.  
 FOLDRITE, flatwork folder, American Laundry Machinery Co.  
 FOLDRITE, shirt folding and finishing equipment, Time Savers, Inc.  
 FORD, gasoline trucks and engines, Ford Div., Ford Motor Co.  
 FORMALENE, chloroform substitute spotter, A. F. Wolke Co.  
 FORMANIL, aniline dyes, American Aniline Products, Inc.  
 FORMATIC, shirt unit and presses, American Laundry Machinery Co.  
 FORM-A-TIME CONTROL, washer timer, Van Chemical Co.  
 FORMATROL CYCLE TIMER, automatic washer control, Prosperity Co., Inc.  
 FORM FIT, garment hangers, Pacific Coat Hanger Mfg. Co.  
 FORM-RITE, collar shaper, Huebsch Div., American Laundry Machinery Co.  
 FORMULA 8, built, powdered, low-titer soap, Swift & Co.  
 FORMULA 71, drycleaning soap, Northeastern Soap & Chemical Co.  
 FORMULA 12, drycleaning soap, Package Chemical Co., Inc.  
 FORMULA W-51, ink remover, A. L. Wilson Chemical Co.  
 FORSE, presses, laundry and drycleaning equipment, Force Equipment Corp.  
 FOSKLOK, chlorinated sodium phosphate, Westvaco Chemical Div., Food Machinery & Chemical Corp.  
 FOSTER-STEPHENS, window posters, photo-truck-posters, sales promotion material, newspaper mats, Foster-Stephens, Inc.  
 FOUR-ACES, synthetic wetcleaner in powder form, National Cleaners Chemical Mfg. Co.  
 400, liquid drycleaner, Adco, Inc.  
 411, powdered synthetic detergent, Armour & Co.  
 FOUR STAR, wheat paste starch, Keefer Starch Co.  
 FOXBORO, indicating, recording, controlling instruments, Foxboro Co.  
 FRACTO-CRETE, castable refractory, Ramtite Co., Div. S. Obermayer Co.  
 FRANKLIN'S, cement treatment, cleaners, polishes, waxes, wood seal, Franklin Research Co.  
 FRATEX, cotton pads, covers and flannels for drycleaning presses, Franklin Textile Mills  
 FRE-BIR-PAC, cloth counters, automatic towel and diaper counters, Fre-Bir-Pac, Inc.  
 FREE-VANE, air-operated controller, Bristol Co.  
 FREE-VANE, electric controller, Bristol Co.  
 FREMONT, rubber floor tile, mats, matting, Fremont Rubber Co.  
 FRESH-AIR MAKER, fans, blowers, Schweitzer-Commins Co.  
 FREUND-TICKINGS, Freund, Freund & Co., Inc.  
 FRIGIDAIRE, conditioners, coolers, Frigidaire Div., General Motors Corp.  
 FRINGE-IT, fringe cleaner, Certified Chemical & Equipment Co.  
 FRONTIER BRAND, belt dressing, Riverside Chemical Co., Inc.  
 FROST-PROOF, pipe covering and blocks, Ruberoid Co.  
 FRUGAL, soap, Minnesota Chemical Co.  
 FRYBRO, black indelible marking ink, ironer oil, Fry Bros. Co.  
 FRYE, dye dippers, E. B. Frye & Son  
 FRY'S SPECIAL, clipper laced aprons, Fry Bros. Co.  
 FUEL-SAVER, waterbube boilers, International Boiler Works Co.  
 FUL-FLO, laundry nets and fabrics, Davis Mills Inc.  
 FULTON, laundry nets, Southern Mills, Inc.  
 FULTON, small horsepower steam boilers, Fulton Boiler Works, Inc.  
 FUMOL, mothproofing agent, Fumol Corp.  
 FUR-E-OIL, re-glazing and softening agent for furs and leathers, Package Chemical Co., Inc.  
 FUR-LASTIC, burned-fur softener, Harry Jay Treu, Inc.  
 FURNAS-CRETE, castable refractory, Mexico Refractories Co.  
 FUR-RAY, fur cleaner and reconditioner, Jay-Dex Inc., Mfg. Chemists  
 FURTEX, fur finishing equipment, Furtex Rejuvenating Corp.  
 FYR-FREDERS, stokers, American Coal Burner Co.

GFTT, gas power fork truck, Lewis-Shopard Products, Inc.  
 G & G, liquid or powdered stripper, bleacher, G & G Chemical Co.  
 GALVANUM, for galvanized iron, Vita-Var Corp.  
 GARCO, hangers, wire trouser guards, collar supports, Garment Hanger Co.  
 GARD, combined flameproofing and mothproofing agent, U. S. Chemical Products  
 GAS-HEAT, recirculators, Kisco Boiler & Engineering Co.  
 GASWAY, gas-heated flatwork ironers, Carway Corp.  
 GAVSCO, valves, Golden-Anderson Valve Specialty Co.  
 GEARHART, reweaving, inweaving and hosiery mending needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.  
 GEARLESS, washers, Zephyr Laundry Machinery Co.  
 GEEP, wet and dry spotter, Keystone Aniline & Chemical Co., Inc.  
 GELATONE, liquid size and finish, R. R. Street & Co., Inc.  
 GEMZYME, enzymic digester, George E. Mead & Co., Inc.  
 GENERAL, perchlorethylene drycleaning units, Martin Equipment Corp.  
 GENERAL ELECTRIC, electrical equipment, General Electric Co.  
 GENERAL FORMULA, stain remover, G & G Chemical Co.  
 GERMITEX, sour, Hood Chemical Co., Inc., Crescent Div.  
 GIANT, built high-titer soap powder, Armour & Co.  
 GIANT, hydraulic extractor, Strike's Laundry Machinery, Inc.  
 GIANT KING, net pins, Keyes-Davis Co.  
 GIBBALTAR, alkali, Washine National Sands, Inc.  
 GIBBALTAR, marking and printed tags, Commercial Tag Co.  
 GIBBALTAR TRI-PRONG CLIP, skirt hanger fastener, Commercial Tag Co.  
 GIL-CR-NITE, casters, Clinton Products Co.  
 GILBARCO, oil burners, Gilbert & Barker Mfg. Co.  
 GILMER, V-belts, flat belting, L. H. Gilmer Co., Div. U. S. Rubber Co.  
 GILT EDGE, round leather belting, I. B. Williams & Sons  
 GLAMORENE, carpet cleaning compound, Jerclaydon, Inc.  
 GLAZEEN, fur glazing fluid, Package Chemical Co., Inc.  
 GLAZOLENE, seal luster, Nycco Products Co.  
 GLEEM, liquid wetcleaning soap, Trico Chemical Div., Tri-State Equipment Co.  
 GLEN ANDERSON, paper collar supports, Howe Paper Corp.  
 GLENZ, zipper repair tools, supplies, Glen Zip Co.  
 GLIDE LINER, pressing machines, laundry power presses, Unipress Co.  
 GLIDER, electric iron, J. W. Steele & Co.  
 GLIDER, pressing machine, Loyal Textile Machinery Corp.  
 GLIM, detergent, General Aniline & Film Corp., Industrial Products Sales Div.  
 GLESSN, liquid rug and upholstery cleaner, Gless'n Products Co., Inc.  
 GLOBE, laundry, drycleaning washers, American Laundry Machinery Co.  
 GLORY, talow soap chips, Swift & Co.  
 GLOVER, cleaners specialties, Bill Glover, Inc.  
 GLUV-NU, glove soap, Davies-Young Soap Co.  
 GLYD-ON, shirt clip, Time Savers, Inc.  
 GMC TRUCKS, motor trucks, GMC Truck & Coach Div., General Motors Corp.  
 GO-BACK, conveyors for flatwork presses, Rosenthal Mfg. Co.  
 GOLDEN, laundry soaps, Fry Bros. Co.  
 GOLD-FLO, boilers and condensation return system, Goldman Pressing Machinery Corp.  
 GOLD LINE, laundry fabric, Tugue, Brown & Co.  
 GOLD MEDAL, hatters' chemicals, machinery, Hatters Supply House, Inc.  
 GOLD MEDAL, metal Southern Mills, Inc.  
 GOLDSEAL, colored specialty tapes, Gummed Tape & Devices Co.  
 GOLD SEAL, rug shampoo, Huntington Laboratories, Inc.  
 GOLD STAR, feed ribbons, L. H. Gilmer Co., Div. U. S. Rubber Co.  
 GOODRICH, rubber hose, belting, B. F. Goodrich Co.  
 GORTON, air eliminators, Gorton Heating Corp.  
 GRAND, hatters' equipment, supplies, Maxant Button & Supply Co.  
 GRANULITH, paint for brick, concrete, stucco, U. S. Gutta Percha Paint Co.  
 GRANTHAM, unloading tumblers, U. S. Hoffman Machinery Corp.  
 GRANULAX, granulated wax, Lewis National Corp.  
 GREAVES, silent bakelite gears, milling machines, Greaves Machine Tool Co.  
 GREENACK, apron duck, John T. Stanley Co., Inc.  
 GREEN BUBBLES, soap powder, Minnesota Chemical Co.  
 GREENNOTE, refractory maintenance coating, A. F. Green Fire Brick Co.

GREEN LABEL, builder compound, Solvay Sales Div., Allied Chemical & Dye Corp.  
 GREEN LABEL, laundry fabrics, R. Lally Co.  
 GREEN OLIVE, soap, Rome Soap Mfg. Co.  
 GREENSTRIFE, cover cloth, John T. Stanley Co., Inc.  
 GREEN STRIFE, padding, William E. Hooper & Sons  
 GREENWOOD, pins, sewing needles, binding tape, Greenwood Textile Co.  
 GREENZYME, digestive enzyme, Greenville Chemical Co.  
 GREIF, hangers, guards, Greif Bros. Coopers Corp., Wire Garment Hanger Div.  
 GRESOL, break powder, Spears Co.  
 GREYHOUND, extractor, synthetic washer, wash-wheel, Hercules Laundry Machinery Co., Inc.  
 GREYHOUND, washers, U. S. Hoffman Machinery Corp.  
 GREY-ROCK, brake lining, clutch facings, brake blocks, Raybestos-Manhattan, Inc.  
 GRIMES, air compressors, Grimes Co.  
 GRIPNET, nylon net closures, Keyes-Davis Co.  
 GRIPPO, slip resistant trouser guard, Patek & Co.  
 GRIPPO GUARD, trouser guards, L. M. Leathers' Sons  
 GRIP-TITE, marking tags, Liberty Marking Tag Co., Inc.  
 GRITITE, rug pole hangers, American Laundry Machinery Co.  
 GROSS, drycleaning extractors, filters, tumblers, washers, Gross Machinery Co., Inc.  
 GROSSAIR, open-end tumbler, Gross Machinery Co., Inc.  
 GROSS-OMATIC, safety petroleum drycleaning unit, Gross Machinery Co., Inc.  
 GROSS STAR, grid plates, electric steam irons, ironing boards and tables, L. Behrstock Co.  
 GROSS-X, tumbler, Gross Machinery Co., Inc.  
 G-SEAL, pipe joint compound, Quigley Co., Inc.  
 G-SOL, drycleaning soap, G & G Chemical Co.  
 GUARANTEED, built, powdered high-titer laundry soap, Swift & Co.  
 GUARDSMAN, watchclock, Detex Watchclock Corp.  
 GUMCRAFT, tapes, labels, Gummed Tape & Devices Co.  
 GUTH FLUORESCENT, fluorescent lighting equipment, Edwin F. Guth Co.  
 GUTH GERM-KILLING LIGHTS, bactericidal lighting equipment, Edwin F. Guth Co.

## H

H, water soluble grease, Keystone Lubricating Co.  
 HD, belt fasteners, Flexible Steel Lacing Co.  
 H-K, water repellent, H. Kohnstamm & Co., Inc.  
 H-Q, disinfectant, Huntington Laboratories, Inc.  
 HTB, soda bleach mix, calcium hypochlorite with soda base, Mathieson Chemical Corp.  
 HW, liquid soap, Eaton Chemical & Dyestuff Co.  
 HAERTEL, fumigation cabinet, garment racks, fur vault door, Walter Haertel Co.  
 HAGAN, combustion control for boilers, Hagan Corp.  
 HAGAN RING BALANCE, flow meters, Hagan Corp.  
 HAGER STOKER FEEDER, screw type conveyor, Hager Bros.  
 HAMILTON, casters, wheels, trucks, Hamilton Caster & Mfg. Co.  
 HAMILTON, spring padding, American Laundry Machinery Co.  
 HAMMEL-DAHL, valve controls, valves, Hammel-Dahl Co.  
 HAMMOND, washers, tumblers, etc., Hammond Laundry-Cleaning Machinery Co.  
 HANDEE, presses, Force Equipment Corp.  
 HAND-FILM, protective hand cream, National Cleaners Chemical Mfg. Co.  
 HANDI, bundle and garment racks, Spears Co.  
 HANDIPAK, portable autographic register, Egly Register Co.  
 HANDIROL, mending tape, Gummed Tape & Devices Co.  
 HANDY, bag holder and spreader, Handy Bag Holder & Spreader Co.  
 HANDY, flatwork ironer, American Laundry Machinery Co.  
 HANDY, gate valve, Lunkenheimer Co.  
 HANDY-ANDY, industrial trucks, Rapids-Standard Co., Inc.  
 HANDYPAK, clay tags, Tagit Co.  
 HANG-A-LOX, wire hanger rack, Time Savers, Inc.  
 HANGER-TIES, hanger combiners, H. F. Hanscom & Co.  
 HANG-RITE, garment hangers, Waldorf Paper Products Co.  
 HARDIN, stain remover, detergent, etc., J. L. Hardin Co., Inc.  
 HAUSER-STANDER, wood tanks, Hauser-Stander Tank Co.  
 HAWKETE, soap flakes, Iowa Soap Co.  
 HAYS, veriflow meter, visio-ratio gauge, Hays Corp.  
 HEARTH-CRETE, refractory material, Quigley Co., Inc.  
 HEART-OK, leather belting, Graton & Knight Co.  
 HEAT-O-SEAL, thermium heat-seal labels, Tompkins' Label Service  
 HODD, curtain ruffle iron, Burkstur Specialties Co.

**H. E. FLUELESS**, boilers, P. M. Lattner Mfg. Co.  
**HELE-SHAW**, pumps, American Engineering Co.  
**HELMET**, steel safety pins, Risdin Mfg. Co.  
**HERCULES**, extractors, Haring & Stephens Co.  
**HERCULES CMC**, sizing agent, Hercules Powder Co.  
**HERMAN**, delivery truck body, Herman Body Co.  
**HERO**, fire extinguishers, Boswick Laboratories  
**HEV-E**, combination oil and gas burner, Cleaver-Brooks Co.  
**HEXAGON**, pads, covers, Stadium Corp.  
**HEXAGON**, prespotter, Riverside Mfg. Co.  
**HEXITE**, wetcleaning soap, Riverside Mfg. Co.  
**HEXOL**, prespotter, Slater-Robbins Co. Inc.  
**HEXOLATE**, alkali, soap builder, Lewis National Corp.  
**HI-BASEX A**, zeolite, Hungerford & Terry, Inc.  
**HIGH FLASH SHELL-SOL**, naphtha petroleum solvent, Shell Oil Co., Inc.  
**HIGH-SPEED**, curtain drier, drying tumbler, American Laundry Machinery Co.  
**HI-GRADE**, leather belting, cement, dressing, Cornell Belting Co.  
**HI-INVERSAND**, zeolite, Hungerford & Terry, Inc.  
**HILD**, rug and carpet shampooing equipment, Hild Floor Machine Co.  
**HILO**, built low-titer soap powder, Armour & Co.  
**HI-LO**, condensation return pump, Yeomans Bros. Co.  
**HILO-CHROME**, chrome base bonding mortar, Mexico Refractories Co.  
**HILOSET**, high temperature bonding mortar, Mexico Refractories Co.  
**HI-LUSTRE**, fur spray, Bernard Sirota Co.  
**HI-SPEED**, rail fittings, Time Savers, Inc.  
**HI-SPEED**, washer, Keystone Laundry Machinery Co.  
**HI-SPEED**, washers, Zephyr Laundry Machinery Co.  
**HI TEST**, high-pressure welded boilers, Kewanee Boiler Corp.  
**HI-TEST**, moth spray, Bernard Sirota Co.  
**HOFFCO-VAC**, portable vacuum cleaner, U. S. Hoffman Machinery Corp.  
**HOFFMAN**, drycleaning, laundry machinery, U. S. Hoffman Machinery Corp.  
**HOFFMANETTE**, silk finishing press, U. S. Hoffman Machinery Corp.  
**HOFF-MANIN**, dress shaper, U. S. Hoffman Machinery Corp.  
**HOFFMATIC**, automatic pressing machines, U. S. Hoffman Machinery Corp.  
**HOLDAPRES**, trouser hanger, B & C Engineering Co.  
**HOLD-FAST**, belt dressing, I. B. Williams & Sons  
**HOLITTE**, collar supports, Wormstead, Smith & Loomis, Inc.  
**HOLITTE**, marking tags, Liberty Marking Tag Co., Inc.  
**HOLT WHIRLWIND**, floor polishers, Holt Mfg. Co.  
**HOMO-FLEX**, hose, belting, Raybestos-Manhattan, Inc.  
**HOOD-CLOR**, bleach, Hood Chemical Co., Inc., Crescent Div.  
**HOOF**, automobile and engine governors, Hoof Products Co.  
**HOOPER**, cotton press padding, nets, William E. Hooper & Sons  
**HOOSIER PEARL**, corn starch, National Starch Products, Inc.  
**HOPE**, tapes, belting, Howe Webbing Co.  
**HOPKINS**, washing machines, tanks, Hopkins Equipment Co.  
**HOPKINS ATOMIZER**, spotter, Hopkins Equipment Co.  
**HOPKINS FILTER**, horizontal, bag type filter, Hopkins Equipment Co.  
**HORNAC**, exterior paint, A. C. Horn Co., Inc.  
**HORN DIU-N-TITE**, roof coating, A. C. Horn Co., Inc.  
**HORNGLAZE**, floor wax, A. C. Horn Co., Inc.  
**HORN NU-WAY RESURFACER**, resurfacing concrete floor, A. C. Horn Co., Inc.  
**HORNSEAL**, boiler setting, A. C. Horn Co., Inc.  
**HORSESHOE**, sorting bin, Time-Savers, Inc.  
**HOT-SHOT**, condensation return pump, Yeomans Bros. Co.  
**HOTT PATCH**, heat setting high temperature cement, Ramtite Co., Div. S. Obermayer Co.  
**HTH**, bleaching agent, Mathieson Chemicals  
**HOYT**, tumblers, Hoyt Mfg. Corp.  
**HUB**, laundry marking tags, Boston Clip & Tag Co.  
**HUBER**, overfed stokers, Flynn & Enrich Co.  
**HUBINGER COMPOUND**, corn starch, Hubinger Co.  
**HUDSON BLEACH**, sodium hypochlorite, Kuehne Chemical Co.  
**HUEBSCH**, tumblers, Huebsch Div., American Laundry Machinery Co.  
**HUMIDIGRAPH**, direct-reading humidity recorder, Bristol  
**HUNGERFORD**, filters, Hungerford & Terry, Inc.  
**HYDRASOL**, wetcleaning Celanese soap, Keystone Aniline & Chemical Co., Inc.  
**HYDRAULIC HANDLIFT** and **FOOTLIFT**, trucks, Lewis-Shepard Products, Inc.  
**HYDRAXTOR**, extractor, Zephyr Laundry Machinery Co.  
**HYDRAZENE**, rust remover, National Cleaners Chemical Mfg. Co.  
**HYDREPAL**, naphtha-soluble waterproofing, National Cleaners Chemical Mfg. Co.  
**HYDROBREAK**, laundry chemical, Diamond Alkali Co.  
**HYDRO CLARO**, bleach, Lewis National Corp.

**HYDRO-KING**, washer, Mid-West Laundry Machinery Mfrs.  
**HYDRON**, luting aids, Riverside Mfg. Co.  
**HYDROLATE**, laundry chemical, Diamond Alkali Co.  
**HYDROFEL**, water repellent, National Cleaners Chemical Mfg. Co.  
**HYDROSULFITE OF SODA**, stripping agent, Jacques Wolf & Co.  
**HYDROSULPHOSOL**, ointment for burns, Reed-Davis Drugs, Inc.  
**HYEX**, super-duty firebrick, McLeod & Henry Co., Inc.  
**HYFLO SUPER-CEL**, filter powder, Johns-Manville  
**HY-GLOS**, gummed, ungummed labels, Tompkins' Label Service  
**HYGRADE**, plastic buttons, Hygrade Button & Supply Co.  
**HY-LO**, blanket washer, American Laundry Machinery Co.  
**HYPAAC**, bleach, Lewis National Corp.  
**HY-SOL**, soap builders, Thompson-Hayward Chemical Co.  
**HYSPAR**, aluminum and white enamel under-paint, Midland Paint & Varnish Co.  
**HY-SPOT**, substitute for chloroform, Slater-Robbins Co.  
**HYTEMPITE**, high temperature bonding mortar, Quigley Co., Inc.  
**HYTEXAL**, built tallow soap, Allen B. Wrisley Co.  
**HY-V AIR JET**, high velocity concentrated cooling fan, DeBotheast Fans Div., American Machine & Metals, Inc.  
**HY-WHITE**, soap, H. Kohnstamm & Co., Inc.  
**HYWHITE**, blue, Speare Co.

## I

**I.D.N.**, iodine stain remover, Package Chemical Co., Inc.  
**IMO**, rotary pump, De Laval Steam Turbine Co.  
**I.S.**, press clamp, slip chain, racks, Ink-O Product Co.  
**IXL**, laundry soaps, Fry Bros. Co.  
**IDEAL**, filter paste soap, National Cleaners Chemical Mfg. Co.  
**IDEAL STYLE**, laundry washer, American Laundry Machinery Co.  
**IGEPALS**, synthetic detergents, General Dyestuff Corp.  
**ICEFONS**, synthetic detergents, General Dyestuff Corp.  
**IMPACTOR**, valve handwheel, Edward Valves, Inc.  
**IMPERIAL**, asbestos pipe covering and blocks, Ruberoid Co.  
**IMPERIAL**, chest type ironer, Imperial Laundry Machinery Co.  
**IMPREGNOLE**, water repellent, Warwick Chemical Co.  
**IN-CEL-ATE**, insulating cement, Mexico Refractories Co.  
**INCO**, metal castings, fittings, tubings, nickel alloy fittings, castings, etc., International Nickel Co., Inc.  
**INCUNEL**, alloy of nickel and chromium, International Nickel Co., Inc.  
**INDEL-O-MARK**, indelible automatic marking pen, Mark-O-Products Co.  
**INDIAN**, laundry soap, North Coast Chemical & Soap Works  
**INDIAN HEAD**, uniform fabric, Nashua Mfg. Co.  
**INDIVIDUAL PROCESS**, ironer, Prosperity Co., Inc.  
**INDIVIDUAL PRODUCTION**, washer, Prosperity Co., Inc.  
**INDUSTRIAL**, cylinders, extractors, tumblers, washers, laundry machinery Co., Inc.  
**INDUSTRIAL**, neutral soap chips and powder, Armour & Co.  
**INGERSOLL-RAND**, compressors, blowers, pumps, Ingersoll-Rand Co.  
**INGRAIN**, laundry starch, Industrial Grain Products, Ltd.  
**INKEK**, ink remover, Patek & Co.  
**INKGO**, liquid oxidizing agent, A. L. Wilson Chemical Co.  
**INK-KLEN**, indelible ink remover, Kern Laboratories  
**INNER-PACK**, steel split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.  
**INSTANT**, moth killer, Berlioz Mfg. Co.  
**INSTITUTIONAL**, starch, A. E. Staley Mfg. Co.  
**INSTRUCTOR**, spot remover, R. H. Street & Co., Inc.  
**INSULAG**, plastic refractory lagging and finishing material for high temperature equipment, Quigley Co., Inc.  
**INSULBRIX**, insulating firebrick, Quigley Co., Inc.  
**INSULCRETE**, refractory material, Quigley Co., Inc.  
**INTERNATIONAL**, trucks, diesel and gasoline engines, International Harvester Co.  
**INTEX**, integral seat valves, Edward Valves, Inc., Suburby Rockwell Mfg. Co.  
**INVADER**, pumps, Schirmer-Dornbringer Pump Co.  
**INVERCARD**, zeolite, Hungerford & Terry, Inc.  
**INVERSAND**, water-softening minerals, water softeners, Hungerford & Terry, Inc.  
**IN-WEAVING**, reweaving, In-Weaving Co. of America

**IODASE**, iodine stain remover, Greenville Chemical Co.  
**IRON CITY**, duck cover, Pittsburgh Waterproof Co.  
**IRON FIREMAN**, stokers, gas and oil burners, Iron Fireman Mfg. Co.  
**IRON HORSE**, metalware, Rochester Can Co.  
**IRON OILITE**, ironing surface lubricant, Patek & Co.  
**IRON OILITE**, machine parts lubricating bearing, Ampier Div., Chrysler Corp.  
**IRON-RIE**, metallic framework ironer pads, Fullo Corp.  
**IROQUOIS**, safety pins, Risdin Mfg. Co.  
**IROQUOIS**, soap, Lewis National Corp.  
**IRON**, iron-oxide-zinc chromate paint, Subor, Inc.  
**ISOCLO**, powdered bleach, Carman & Co., Inc.  
**ISOGRAPH**, stencil ink, Carman & Co., Inc.  
**ISOMODIE**, vibration absorber pads, press shock absorber units, M. B. Mfg. Co., Inc.  
**ISOTABS**, tablet-form laundry blue, Carman & Co., Inc.  
**IVORY**, soaps, chips, powder, Procter & Gamble Distributing Co.

## J

**J.F.S.**, variable speed reducers, Stephens-Adamson Mfg. Co.  
**J-M**, packings, gaskets, Johns-Manville  
**J-P-S**, drycleaning soap, R. R. Street & Co., Inc.  
**JANET**, steam necktie presses, glove forms, Shedlov-Helms Mfg. Co.  
**JAY BEE**, super-duty firebrick, Mexico Refractories Co.  
**JAY-DEK**, fur stretcher and softener, mothproofing liquid, Jay-Dee, Inc., Mfg. Chemists  
**JEFFERSON ISLAND**, salt, Jefferson Island Salt Co., Inc.  
**JETVEYON**, steam jet ash conveyor, Brady Conveyor Corp.  
**JIFFY**, blanket washer, Abe Cohen & Son  
**JIFFY**, cuff brusher, bagging devices, Medalie Mfg. Co.  
**JIFFY**, puff irons, Columbia Laundry Machinery Co.  
**JIFFY**, sock turner, Time Savers, Inc.  
**JIFFY SORTERS**, sorting hooks with clip attached, Frank H. Smith Co.  
**JIFFY-STICK**, ink remover, National Cleaners Chemical Mfg. Co.  
**JOHNSON**, flexible metal hose, Johnson Metal Hose, Inc.  
**JOHNSON**, ironer oil, liquid stripper, Johnson Chemical Industries, Inc.  
**JOHNSON**, rotary pressure joints, steam water heater, compressed air separators, compressed air aftercoolers, high temperature boiler feed system, solenoid valves, automatic boiler water controls, Johnson Corp.  
**JOMAC**, scorch resistant fabric, C. Walker Jones Co.  
**JUMBO**, metallic wool padding, International Steel Wool Corp.  
**JUMBO**, net pins, Nickel Mfg. Co.  
**JUNIOR**, extractor, Fletcher Works, Inc.  
**JUNIOR CHALLENGER**, washer, Miller Laundry Machinery Co.  
**JUNIOR KING**, net pins, Keyes-Davis Co.

## K

**K.A.T.**, water conditioner, American K.A.T. Corp.  
**K.B.**, soap powder, sour, Kliegman Bros., Inc.  
**K-D**, nets, marking pins, Keyes-Davis Co.  
**KMS**, mothproofing agent, Kinsford Co.  
**K-J**, wetcleaning soap, Northeastern Soap & Chemical Co.  
**K.O.P.**, coco-potash soap, Armour & Co.  
**K & T**, valves, Klipfel Mfg. Co.  
**KALITE**, calcium carbonate, Diamond Alkali Co.  
**KAME-a-KLEEN**, soap powder, Kamen Soap Products Co., Inc.  
**KAMENOL D**, synthetic detergent, Kamen Soap Products Co., Inc.  
**KAMENOL M**, powdered laundry soap, Kamen Soap Products Co., Inc.  
**KAMENOL 93**, soap flakes, Kamen Soap Products Co., Inc.  
**KAMENOL 60**, soap beads, Kamen Soap Products Co., Inc.  
**KAMEX R**, vegetable powdered low-titer soap, Kamen Soap Products Co., Inc.  
**KANE**, gas-fired steam boilers, Mears-Kane-Ofeldt, Inc.  
**KANTARE**, non-renewable fuses, Trico Fuse Mfg. Co.  
**KARAGAMI**, powdered wax, refined wax, Concord Chemical Co.  
**KARGO-KING**, aluminum-alloy van panel truck bodies, J. B. E. Olson Corp.  
**KARPET-KARE**, carpet cleaner, Bigelow-Sanford Carpet Co.  
**KARRICK**, laundry detergents, Karrick Co.  
**KATOLIGHT**, generators, light plants, Kato Engineering Co.

**KAT**, concentrated mothproof, Kinsford Co.  
**KAY-BEE**, cover cloth, Kliegman Bros., Inc.  
**K-B-1**, break alkali, Laundry Chemicals Co.  
**K-BRITE**, drycleaning soap, H. Krevit & Co., Inc.  
**KECKLEY**, steam and liquid control equipment, O. C. Keckley Co.  
**KEEDOL**, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.  
**KEELER CP**, boilers, E. Keeler Co.  
**KEE-STAR**, corn starch, Kever Starch Co.  
**KEEVER**, rug and carpet size, Kever Starch Co.  
**KEEVER CLEANER**, cleaner for metal sleeve form and press, Kever Starch Co.  
**KEKO**, moth-repellent garment storage bags, Kennedy Car Liner & Bag Co.  
**KELCO**, cutting oil, Keystone Lubricating Co.  
**KELITE**, laundry and boiler compounds, Kelite Products, Inc.  
**KELLEY**, heat reclaimers, hot water heaters, storage heaters, Patterson-Kelley Co., Inc.  
**KELLOGG-AMERICAN**, air compressors, paint spray equipment, exhaust fans, American Brake Shoe Co., Kellogg Div.  
**KELMAKER**, pressure filters, vacuum traps, sight glass assemblies, Kelmaf Mfg. Co.  
**KEM-BLU**, liquid blue, Kem Laboratories  
**KEMINATE**, synthetic detergent, Kem Laboratories  
**KEMITE**, sour, Kem Laboratories  
**KEMLEK**, drycleaning detergent, Kemlek Corp., Div. of Tobin-Halpert, Inc.  
**KEMO**, alkali compounds, Kem Laboratories  
**KEN PRO**, cover cloths, Whitehouse Products, Inc.  
**KENWASH**, laundry liquid detergent, Kemlek Corp., Div. of Tobin-Halpert, Inc.  
**KEN DUE**, synthetic drycleaning machine, John W. Young  
**KENNEDY**, paper bags, Kennedy Car Liner & Bag Co.  
**KENNEY**, water softeners, filters, zeolite, Kenney Softener & Filter Co.  
**KENTUCKY**, trucks, dollies, hampers, boxes, Kentucky Box & Truck Co.  
**KEWANEE**, heating boilers, power boilers, storage water heaters, steel tanks, water heating garbage burners, Kewanee Boiler Corp.  
**KEY-LOK**, brake blocks, Raybestos-Manhattan, Inc.  
**KEYLUBRIC**, air tool lubricant, Keystone Lubricating Co.  
**KEYSO**, drycleaning soap, G & G Chemical Co.  
**KEYSTONE**, alkalis, Swift & Co.  
**KEYSTONE**, extractors, Keystone Laundry Machinery Co.  
**KEYSTONE**, hat sizing, Keystone Aniline & Chemical Co.  
**KEYSTONE**, leather and liquid glove soap, nail polish remover, white kid glove bleach, Keystone Aniline & Chemical Co., Inc.  
**KEYSTONE**, steam generator, Erie City Iron Works  
**KEYSTONE**, water heaters, Crane Co.  
**KEYSTONE**, wax spot remover, Keystone Lubricating Co.  
**KEY-TAG**, automatic mechanical identification system, Key-Tag Checking System Co.  
**KEYTEX**, CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.  
**KEY-TEX**, filter soap, G & G Chemical Co.  
**K-555**, low-temperature soap powder, Laundry Chemicals Co.  
**K-11**, Boiler Stew, to remove scale deposit, National Chemical Sales Co., Laboratory, Inc.  
**KIDDE**, fire extinguishers, Walter Kidde & Co., Inc.  
**KILLARNEY**, laundry blue, Patek & Co.  
**KILLFTR**, automatic fire extinguisher, General Machine Supply Co.  
**KIL-ODE**, deodorant, Warco Laboratories  
**KING-CLIP**, gate valve, Lunkenheimer Co.  
**KIRK'S**, spray guns, formers, finishers, Kirk's Leather Cleaners  
**KISCO**, boiler room equipment, Kisco Boiler & Engineering Co.  
**KLEANWELL**, oil soap, Minnesota Chemical Co.  
**KLEENAP**, rug detergent, H. Kohnstamm & Co., Inc.  
**KLEENFLO**, activated sweetener, L. A. Salomon & Bro.  
**KLEEN-RITE**, coconut-oil soap, National Cleaners Chemical Mfg. Co.  
**KLEEN SHEET**, waste rug soap, Adco, Inc.  
**KLEERITE**, indelible ink, American Writing Ink Co., Inc.  
**KLEERVU**, safety eye guard, gauge glass protector, Wright-Austin Co.  
**KLEER-VUE**, window paper garment bag, Schor Paper Co.  
**KLENEASE**, wetcleaning soap, Caled Products Co., Inc.  
**KLERA CID**, laundry sour, Wyandotte Chemicals Corp.  
**KLEX**, pumice soap, Colgate-Palmolive-Peet Co.  
**KLEGBILT**, alkali, break powder, Kliegman Bros., Inc.  
**KLIEGSPUN**, nets, cover cloth, Kliegman Bros., Inc.  
**KLIEGWAVE**, nets, Kliegman Bros., Inc.  
**KLIPLOK**, clamps for fuse clips, test clamps, Trico Fuse Mfg. Co.  
**KLIP-ZIT**, drier clips, Time Savers, Inc.  
**K-LIQUID SOAP**, liquid soap, Laundry Chemicals Co.  
**KLIX**, paint remover, Nu-Pro Mfg. Co.  
**KLORGENT**, synthetic soap, G & G Chemical Co.  
**KLOR-LENE**, spotting solution with chloroform action, Davies-Young Soap Co.

**KLORO**, liquid detergent for use with synthetic solvent units, Adco, Inc.  
**K-MASTER**, filters, traps, pressure regulating valves, Kaye & MacDonald, Inc.  
**K-MONEL**, heat-treating alloy, International Nickel Co., Inc.  
**KNIGHT-WARE**, acid-proof chemical stoneware, Knights A. Knight  
**KNITTED PADDING**, knitted padding, Knitted Padding Co.  
**KNOTLOFT**, laundry nets, New York Net Co.  
**KOKOWET**, wetcleaning soap, Adco, Inc.  
**KOKOWET**, wetcleaning soap, Stadham Co., Inc.  
**KOLD**, sour, Minnesota Chemical Co.  
**KOLITE**, cold-water built soap, John T. Stanley Co., Inc.  
**KOL MASTER**, stokers, Kol Master Corp.  
**KOLSTRIP**, cold-water liquid color stripper, Washine National Sands, Inc.  
**KOLURGO**, hot-water liquid color stripper, Washine National Sands, Inc.  
**KOMO**, blues, ironer oil, Minnesota Chemical Co.  
**KOMONOL**, organic detergent, Minnesota Chemical Co.  
**K-121-B**, break powder, Laundry Chemicals Co.  
**K-122**, soap builder, Laundry Chemicals Co.  
**KOOLEH-KOTE**, aluminum roof coating, Midland Paint & Varnish Co.  
**KOROLA**, French-cup fastener, Boston Clip & Tag Co.  
**KOSMETEX**, spotter for cosmetic stains and liquids, Patek & Co.  
**KOVERLOX**, file fasteners, Speed Products Co., Inc.  
**KOYLON**, foam pressing pads, U. S. Rubber Co., Kevlon Div.  
**KRAN-MER**, dyeing, Kran-Mer Corp.  
**KROMOAK**, leather and waterproof leather belting, Charlotte Leather Belting Co.  
**KROSTAN**, leather and waterproof leather belting, Charlotte Leather Belting Co.  
**K-SOLVENT**, detergent for industrial wetwash, Laundry Chemicals Co.  
**K-355**, built soap powder, Laundry Chemicals Co.  
**KUNKLE**, safety and relief valves, Kunkle Valve Co.  
**KU-SIDE**, motor truck bodies, J. B. E. Olson Corp.  
**K-V**, heavy fluid lubricant, Keystone Lubricating Co.  
**KWIK**, fluorescent bleach, Eaton Chemical & Dyestuff Co.  
**KWIK CHANGE**, cover and iron springs, Time Savers, Inc.  
**KWIK KOVER**, hanger shields, Kwik Kover Sales Co.  
**KWIK-SET**, bag and net holders, Time Savers, Inc.  
**KWIK SUDS**, laundry soap, Kem Laboratories  
**KWIK TAG**, marking tag, Kwik Kover Sales Co.  
**KWIX SET**, washing machine timer, H. C. Thompson Clock Co.  
**KW-1**, VCLAY, bentonite clay, American Colloid Co.

## L

**L. M. C.**, pumps, Lubbock Machine Co., Inc.  
**L-N**, sour, tags, Lewis National Corp.  
**L.S.R.**, lipstick remover, Murphy Sales Co.  
**LACLEDE**, grates, stokers, Laclede Stoker Co.  
**LACQUERSOL**, spotting agent, Nu-Pro Mfg. Co.  
**LA FRANCE**, pumps, American-La France-Foam-ite Corp.  
**LAIDLAW**, hangers, W. A. Laidlaw Wire Co.  
**LALLY**, pillow supplies, R. Lally Co.  
**LAMTEX**, floor mats, press pads, Burgess-Berliner Associates  
**LAM-TEX**, sponge press pads, rubber floor mats, Pittsburgh Tag Co.  
**LANATEX**, controlled alkaline detergent for fugitives, Carman & Co., Inc.  
**LANATEX G**, alkaline detergent for carpets and rugs, Carman & Co., Inc.  
**LANE**, baskets, trucks, hampers, W. T. Lane & Bro., Inc.  
**LANI-TEX**, press pads, floors mats, Pittsburgh Tag Co.  
**LAPELLETES**, lapel protectors, M. H. Gronauer  
**LARTON**, assembly hooks, sorters, Larton Products Co., Inc.  
**LATCO**, boilers, F. M. Lattner Mfg. Co.  
**LATHRINE**, rug cleaner, Continental Car-Na-Tar Corp.  
**LATTNER**, boiler feed pumps and return systems, F. M. Lattner Mfg. Co.  
**LAUNDERLOG**, recording washwheel thermometer, water level recorder, Foxboro Co.  
**LAUNDERITE**, laundry starch, Clinton Foods, Inc.  
**LAUNDRY COMPOUND**, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.  
**LAUNDRY SOUR**, acid material for neutralizing, Trecro Products, Inc.  
**LAUSO**, medium pH build soap, E. F. Drew & Co., Inc.  
**LAUREL**, rubber markers, Laurel Co.  
**LAVEKOL**, spot washing, General Dyestuff Corp.  
**LAVEL APPARATUS**, process for bleach, Wal-lace & Tierman Products, Inc.  
**LAVOX**, machinery enamel, Pittsburgh Plate Glass Co., Paint Div.  
**LAWSON**, pulleys, hand trucks, wheels, casters, Menasha Wood Split Pulley Co.

**LAYCO**, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.  
**LAYNE**, vertical turbine pumps, water well screens, Layne & Bowler, Inc.  
**LAYTITE**, floor coating, Streelote Mfg. Co.  
**LE ANN**, fur repair and remodeling services, Le Ann Fine Furs  
**LEATHERFAST**, suede leather dye, Keystone Aniline & Chemical Co., Inc.  
**LEATHER-LIFE**, leather dressing, Nycoco Products Co.  
**LEATHER-LUSTRE**, smooth-leather colors, Keystone Aniline & Chemical Co., Inc.  
**LEATHER SOAP**, leather cleaning and glove soap, Spiz Products Co.  
**ELECTROLIER**, fans, Sun Fluorescent Electric Co.  
**LED-FLATE**, thread and gasket paste, Armite Laboratories  
**LEEBAW**, counter conveyor, industrial trucks, Leebaw Mfg. Co.  
**LEEF**, flexible form, Leaf Bros., Inc.  
**LEFFEL**, automatic underfeed stokers, steam boilers, James Leffel & Co.  
**LENACO**, baskets, bleaches, blues, ink, ironer oil, pads, hannels, press covers, cement, Lewis National Corp.  
**LENACO NO-SNAG**, tumbler pads, Lewis National Corp.  
**LENASOL**, disinfectant, Lewis National Corp.  
**LENDEL**, overcoat shaper, U. S. Hoffman Machinery Corp.  
**LEONARD**, manually operated drycleaning press, Leonard Pressing Machine Co.  
**LESLIE**, controls and regulators, pumps, valves, Leslie Co.  
**LESLIE-TYPON**, whistles, horns, signals, Leslie Co.  
**LESO**, glove soap, Nu-Pro Sales Corp.  
**LESTOL**, liquid synthetic detergent, Adell Chemical Co.  
**LETHALAIRE R-10**, insecticide, Virginia Smelting Co.  
**LETHALAIRE V-20**, insecticide, Virginia Smelting Co.  
**LEVHOL**, moth fumigant, insecticide, Mortemoth Chemical Laboratories  
**LEVELENE**, textile dyeing assistants, American Aniline Products, Inc.  
**LEVELENE FGD**, color-setting liquid, American Aniline Products, Inc.  
**LEVELOL**, stripper, Eaton Chemical & Dyestuff Co.  
**LEVELOMETER**, gauges, Liquidometer Corp.  
**LEVELON**, blue, H. Kohnstamm & Co., Inc.  
**LEVELON**, moisture leveler and neutral spotting base, National Cleaners Chemical Mfg. Co.  
**LEWIS**, baskets, trucks, G. B. Lewis Co.  
**LEWIS**, rug binding machines, Lewis Invisable Stitch Machine Co.  
**L-4008**, laundry starch, Clinton Foods, Inc.  
**LIFE FOR FABRICS**, water repellent and fabric conditioner, Franklin Research Co.  
**LIFETIME MOTH-PROOFING**, moth repellent, Sibur Mothproof Co.  
**LIFETIME WALL**, suspended boiler wall, George P. Reintjes  
**LIGHTNING**, drycleaning, fur and upholstery cleaning compounds, Mortemoth Chemical Laboratories  
**LIGHTNING**, water-repellent dip tank, Hopkins Equipment Co.  
**LIME-SOLV**, calcium solvent, H. Kohnstamm & Co., Inc.  
**LINCOLD**, rug and carpet re-dyeing, Lincoln-Hudson Rug Dyers, Inc.  
**LINEX**, synthetic wetcleaning soap, Allen & Vickers, Inc.  
**LINEX-BELT**, chains, conveyors, stokers, power transmission machinery, Link-Belt Co.  
**LINN**, special bodies, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.  
**LION-BILT**, work uniforms, Lion Uniform Co.  
**LIP-L-CATER**, lipstick and lacquer remover, W. F. Johnson Products Co.  
**LIPPOFF**, cleaning compounds, Mortemoth Chemical Laboratories  
**LIPSTICK-MUV**, lipstick remover, Package Chemical Co., Inc.  
**LIQUA-BREAK**, washroom detergent, Davies-Young Soap Co.  
**LIQUID BLUE**, blue, Diamond Alkali Co.  
**LIQUID BLUE**, blue, H. Kohnstamm & Co., Inc.  
**LIQUID BRICLENE**, drycleaning detergent, Armour & Co.  
**LIQUID MORTEMOTH**, insecticide, Mortemoth Chemical Laboratories  
**LIQUID-METER**, gauges, Liquidometer Corp.  
**LIQUIVATOR**, condensate return system, Morehead Mfg. Co.  
**LIQUON**, water-softening equipment, Liquid Conditioner Corp.  
**LIQUONEX**, water-treatment chemical, zeolites, Liquid Conditioning Corp.  
**LITMAKER**, listing machines, National Marking Machine Co.  
**LITTLE CHIEF**, pumps, Fairbanks, Morse & Co.  
**LITTLE GIANT**, cuff and pocket cleaner, Little Giant Specialties  
**LITTLE GIANT**, synthetic cleaning unit, West Coast Laundry Machinery Co.  
**LITTLE GIANT**, water spray gun, Stebbins Mfg. & Supply Co.  
**LITTLE SCOTCHMAN**, Scotch marine boilers, U. S. Hoffman Machinery Corp.  
**LITTLE WARRIOR**, metal washer, Illinois Laundry Machinery Mfg. Co.  
**LITTLE WONDER**, electric whiskbrush, American Pressboard Co., Inc.



**LIVE OAK**, leather transmission belting, Eagle Belting & Leather Co.  
**LIXATE**, rock salt dissolver, International Salt Co., Inc.  
**L. N. 4**, spotter and stripper, Lewis National Corp.  
**LOCK END**, trouser guards, necktie forms, Paulin Products Co.  
**LOEBL**, garment, rug dyeing, Loebel Dye Works, Inc.  
**LO-FRONT**, washer, U. S. Hoffman Machinery Corp.  
**LOGIK**, soap builder, Minnesota Chemical Co.  
**LO-HED**, hoists, car pullers, American Engineering Co.  
**LOK-TITE**, marking tags, Liberty Marking Tag Co., Inc.  
**LO-MAINTENANCE**, electric motors, Allis-Chalmers Mfg. Co.  
**LONGBOY**, laundry net, Carson Textile Co., Inc.  
**LONGLIFE**, ironer aprons, ironer ribbons, Tingle, Brown & Co.  
**LOOKOUT**, boilers, Lookout Boiler & Mfg. Co.  
**LOSET**, stokers, Canton Stoker Corp.  
**LOSTOKER**, boiler stoker, Detroit Stoker Co.  
**LOT SYSTEM TAG-O-MATIC**, marking machine for lot system identification, Textile Marking Machine Co., Inc.  
**LOUDEN**, conveyors, cranes, hoists, Louden Machinery Co.  
**LOW FRONT**, washers, Zephyr Laundry Machinery Co.  
**LOX-IN**, collar supports, Time Savers, Inc.  
**LOYAL**, automatic starcher, Armstrong Machinery Co.  
**LOYAL**, pressing machines, vacuum systems, starching machines, Loyal Textile Machinery Corp.  
**LT 60**, built red oil soap, Allen B. Wrisley Co.  
**LUBEFLEX**, starch div lubricant, Hood Chemical Co., Inc. Crescent Div.  
**LUB-N-WAX**, wax, Speare Co.  
**LUBRI-KLEEN**, lubricating agent for ironers and presses, Paper Chemicals Co.  
**LUCIDE A-20**, waterproof insecticide, Pest Control Equipment Co.  
**LUPOGUM**, size, Jacques Wolf & Co.  
**LUPOSEC**, waterproofing agent, Jacques Wolf & Co.  
**LUSTER-ON**, fur glaze, Nycco Products Co.  
**LUSTERSUDS**, soap, H. Kohnstamm & Co., Inc.  
**LUSTERWAY COMPOUND**, fur cleaning sawdust, Root & Co.  
**LUSTERWAY FORMULA**, fur conditioner and glaze, Root & Co.  
**LUSTERWAY SOLVENT**, fur cleaning solvent, Root & Co.  
**LUSTRAL**, liquid synthetic cleaner, National Cleaners Chemical Mfg. Co.  
**LUSTRLUX**, synthetic solvent drycleaning machine, Butler Mfg. Co.  
**LUSTRO-KLEEN**, liquid wet cleaning soap, Slater-Robbins Co. Inc.  
**LUXOL**, starch lubricant, E. F. Drew & Co., Inc.  
**LUXOR PLASTIC**, transparent garment bags, Rassenfoss Bag Co., Inc.

## Mc

**McDONNELL**, boiler water level control, McDonnell & Miller, Inc.  
**McDONNELL & MILLER**, water controls, McDonnell & Miller, Inc.  
**McELMOYL**, canvas baskets, canvas shipping hampers, canvas basket trucks, M. J. McElmoyl Co.  
**McKEE-ECLIPSE**, blowers, boiler feed and return systems, gas burners, controls, Eclipse Fuel Engineering Co.

## M

**M-K-O**, automatic boiler feed systems, Mearns-Kane-Ofeldt, Inc.  
**M. L. B.**, waterproof cemented leather belting and dressing, Milwaukee Leather Belting Co.  
**M&M**, rollers, level controls, McDonnell & Miller, Inc.  
**M. S. A.**, aprons, first-aid equipment, safety equipment, soda tablets and dispensers, Mif Safety Appliance Co.  
**MACBETH DAYLIGHTS**, color matching and daylight lamps, Macbeth Corp.  
**MACBETH pH METERS**, control equipment, indicators, test kits, Macbeth Corp.  
**MACHETA AIRFOIL**, industrial ventilating fans, Aerovent Fan Co.  
**MACS AUTO MEASIC SORTER**, laundry sorting machine, Triple "M" Inc.  
**MAFORCO**, fur storage equipment, racks, Market Forge Co.  
**MAGIC**, double collar support, J. W. Steele & Co.  
**MAGIC INKSTICK**, ink eradicator, Nu-Pro Mfg. Co.  
**MAGIC-SEAL**, shirt bands, Century Paper Products  
**MAGLA SILVER**, cover cloth, Magla Products

**MAGNESOL**, adsorptive filter powder, Westvaco Chemical Div., Food Machinery & Chemical Corp.  
**MAGNETROL**, liquid level controllers, Fred H. Schaub Engineering Co., Inc.  
**MAGNETTE**, circuit breakers, Heinemann Electric Co.  
**MAGNISSET**, a type of free vane air-operated controller, Bristol Co.  
**MAGNUS**, cleaning materials, Magnus Chemical Co., Inc.  
**MAINTENEX**, cleaning compound, A. C. Horn Co., Inc.  
**MAJESTIC**, drycleaning units, Indiana Mfg. Co., Inc.  
**MAJESTIC**, steel steam boilers, Ames Iron Works  
**MAIMOTH CASCADE**, laundry washer, American Laundry Machinery Co.  
**MANHATTAN**, belt hose, tank lining, Raybestos-Manhattan, Inc.  
**MANISOLV**, prespotter, Merson Products Co.  
**MANITOWOC**, drycleaning tumbler and unit, Manitowoc Mfg. Div., Manitowoc Shipbuilding Co.  
**MARATHON**, ironer tape and feed ribbons, asbestos ironer covers and pads, black nylon  
**MARCLENE**, detergent, Martin Equipment Corp.  
**MARCO**, hot-water heaters, storage heaters, feed-water heaters, oil separators, Marshall Heater Co.  
**MARKOGRAPH**, marking machines, marking ink, George Steigler Co.  
**MARK-O-INK**, indelible marking ink, Mark-O Corp.  
**MARK-O-PEN**, indelible marking pen, Mark-O Corp.  
**MARK RITE**, tags, Lewis National Corp.  
**MARMA**, corrosion inhibitor, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbide Corp.  
**MAR-MAK**, rug drycleaning machine, Mar-Mak Cleaning Machine Co.  
**MARMON-HERRINGTON**, all wheel drive truck, Marmon-Herrington Co., Inc.  
**MAROSAL**, rinsing aid, Minnesota Chemical Co., Inc.  
**MARSH**, valves, Jas. P. Marsh Corp.  
**MARTEX**, non-slip composition flooring, treads, American Abrasive Metals Co.  
**MARTIN**, drycleaning system, Martin Equipment Corp.  
**MARTINIZING**, drycleaning system, Martin Equipment Corp.  
**MARVEL**, cotton padding, canvas cement, Pittsburgh Waterproof Co.  
**MARVEL**, ink remover, Keystone Aniline & Chemical Co., Inc.  
**MARVEL**, laundry, drycleaning equipment, Marvel Mfg. Co.  
**MARVEL**, marking machine, foot-powered staplers, indelible marking ink, Marvel Marking Machine Co.  
**MARVELCLEEN**, synthetic drycleaning soap, Trico Chemical Div., Tri-State Equipment Co.  
**MARVEL**, drycleaning soap, Nu-Pro Mfg. Co.  
**MASONNEILAN**, steam plant equipment, Mason-Neilan Regulator Co.  
**MASS PRODUCTION CURTAIN DRYER**, 3-way curtain dryer, National Dryer Mfg. Co.  
**MASTER**, drying tumblers, Hammond Laundry-Cleaning Machinery Co.  
**MASTER**, glove cleaning soap, Keystone Aniline & Chemical Co., Inc.  
**MASTER**, lint brush, Master Products Co.  
**MASTER**, presses, laundry and drycleaning equipment, Master Machinery Co.  
**MASTER**, soaps, Lasco Supply Co.  
**MASTER**, valves, W. M. Chase Co.  
**MASTER-BILT**, washers, B & G Machinery Co., Inc.  
**MASTER BRAND**, batter's equipment, supplies, Maxant Button & Supply Co.  
**MASTER CASCADE**, laundry washer, American Laundry Machinery Co.  
**MASTER CHALLENGER**, washer, Miller Laundry Machinery Co.  
**MASTER CONTROL UNIT**, steam system, Velocity Steam Production Engineering, Inc.  
**MASTER DRY CLEANERS**, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.  
**MASTER KING**, net pins, Keyes-Davis Co.  
**MATCHLESS**, flatwork ironers, Prosperity Co., Inc.  
**MATCHLESS**, monorail trolley, Chisholm-Moore Hoist Corp.  
**MATEER**, extractors, Western Laundry Machinery Co., Inc.  
**MECLASOL**, washroom detergent, Carlton Chemical Co., Inc.  
**MECLOID**, colloidal clay compound, H. Kohnstamm & Co., Inc.  
**MEHL**, transparent bags, Mehl Mfg. Co.  
**MEMO TAGS**, pre-printed instruction tag, Larton Products Co., Inc.  
**MENDEX**, tabs and tapes for repairing, marking, Mendex Corp.  
**MEND-MASTER**, machines for applying tapes or tabs, Mendex Corp.  
**MENCO-BRITE**, synthetic detergent, Colgate-Palmolive-Peet Co.  
**MERASOL**, drycleaning soap, R. R. Street & Co., Inc.  
**MERCO-BRITE**, fluorescent dye, Merchants Chemical Co.  
**MERCURY**, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**MERCURY**, soaps, detergents, Theobald Industries

**MERCURY**, synthetic cleaning systems, filters, tumblers, Mercury Cleaning Systems, Inc.  
**MERSON**, soaps, strippers, Merson Products Co.  
**METALASTIC**, packings, Metalastic Mfg. Corp.  
**METALATE**, laundry chemical, Diamond Alkali Co.  
**METEOR**, electric hoist, Chisholm-Moore Hoist Corp.  
**METRO**, delivery truck bodies for light, bulky loads, Metropolitan Body Co., Inc.  
**METSO**, detergents, Philadelphia Quarts Co.  
**METSO 88**, rug cleaner, Philadelphia Quarts Co.  
**METSO 85**, silicate type cleaner, Philadelphia Quarts Co.  
**METSO GRANULAR**, sodium metasilicate, Philadelphia Quarts Co.  
**METSO 89**, sodium sesquiosulfate, Philadelphia Quarts Co.  
**METTLE**, gas and oil burners, Lee B. Mettler Co.  
**MEX-R-CO**, air and heat setting bonding mortar, Mexico Refractories Co.  
**MICRO-KLEAN**, filter, Cuno Engineering Corp.  
**MICROMET**, rust and corrosion preventative, Calgon, Inc.  
**MIDCO**, flameproofing agent, Merson Products Co.  
**MIDGET**, controls, Morehead Mfg. Co.  
**MIDGET KING**, marking pins, Keyes-Davis Co.  
**MIDGET-MATIC**, laundry washers, Hammond Laundry-Cleaning Machinery Co.  
**MIDGET PERFECTION MARKER**, marking machine, Perfection Marking Machine Co.  
**MIDIFORM**, all-around spotter, Merson Products Co.  
**MIDWEST**, stainless steel washer, Midwest Laundry Machinery Mfg. Inc.  
**MIF**, pipe fittings, Malleable Iron Fittings Co.  
**MILCO**, rug beaters, driers, upholstery, shampooing machine, A. O. Miller & Co.  
**MILDEW-CHEK**, mildew preventative, Chek Products, Inc.  
**MILDEX**, mildewicide, Patek & Co.  
**MILDUSIZE**, drycleaning mildew preventative, Gides Corp.  
**MILLER**, laundry washers, Miller Laundry Machinery Co.  
**MILLER**, lighting fixtures, Miller Co.  
**MILLICAL**, calcium carbonate, Diamond Alkali Co.  
**MILNOR**, laundry, drycleaning extractors, washers, Fellerin Milnor Corp.  
**MILQ**, drycleaning paste soap, R. R. Street & Co., Inc.  
**MINCO**, soaps, Minnesota Chemical Co.  
**MINIATURE SLEEVES**, sleeve formers, Wichita Precision Tool Co., Inc.  
**MIN-IT-SOL**, drycleaning soap, Murphy Sales Co.  
**MINUTE MAN**, extractor, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**MIRZA**, rug cleaning system and machine, rug duster, rug dryroom conveyor, rug drying unit, rug wringer, American Laundry Machinery Co.  
**MITCO**, drycleaning washer, tumblers, J. B. Mitchell Co.  
**MIZON**, rug cleaning detergent, Fumol Corp.  
**MKAYO**, boilers for oil firing, Mears-Kane-Ofeldt, Inc.  
**MOBILE HAMPER**, clothes cart, R. B. Smith Co.  
**MOBILMARKER**, storage bin, marking hopper and marking table, G. H. Bishop Co.  
**MOCO**, drycleaning soap, Package Chemical Co., Inc.  
**MODEL GT**, friction clutches, T. B. Wood's Sons Co.  
**MODINE**, unit heaters, coolers, Modine Mfg. Co.  
**MOELLER**, gauges, pyrometers, recorders, thermometers, Moeller Instrument Co.  
**MOHAWK**, padding, Egan Cotton Mills  
**MOHAWK**, power-driven scraper for removing soot from inside boiler tubes, Brun Mfg. Co.  
**MOHAWK**, tallow soap chips and powder, Swift & Co.  
**MOHAWK**, tire recapping stock, tire repair materials, Mohawk Rubber Co.  
**MOLAFORM**, stain remover, Package Chemical Co., Inc.  
**MONAD G**, neutral synthetic detergent, Colgate-Palmolive-Peet Co.  
**MONARCH**, washer, American Laundry Machinery Co.  
**MONARCH**, wire staples, Vail Mfg. Co.  
**MONEL**, alloy of nickel and copper, International Nickel Co.  
**MONELLO**, Monel pads for overall presses, Resilio Co.  
**MONEX**, extractor, American Laundry Machinery Co.  
**MONITE**, insured mothproofing, Monite Co., Inc.  
**MONOBLOC**, close coupled centrifugal pumps, Worthington Pump & Machinery Corp.  
**MONO-FABRIK**, plastic firebrick, Mexico Refractories Co.  
**MONO-LINE**, plastic firebrick, Quigley Co., Inc.  
**MONOPOL**, dye, for dyeing and finishing, Jacques Wolf & Co.  
**MONOWASH**, package laundry unit, U. S. Hoffman Machinery Corp.  
**MONTPELLIER**, truck bodies for laundry and linen supply delivery, Montpelier Mfg. Co.  
**MOORE**, autographic register, Moore Business Forms, Inc.  
**MOORE**, trolley conveyor, Chisholm-Moore Hoist Corp.

**MOORES OCTOCLENE**, rug cleaner, Moores Time Saving Equipment Co.  
**MORE-DRAIN**, channel roofing, Berger Mfg. Div., Republic Steel Corp.  
**MOR-REX**, dry dress firebrick, Mexico Refractories Co.  
**MORHEAT**, boiler and steam generators, hot water systems, Morheal Sales Co.  
**MORLEX**, corrosion inhibitor for boiler water and steam, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.  
**MOROCCO**, rug stains, National Starch Products, Inc.  
**MORSE**, drum plug wrench, drum dispensing racks, bottle tipplers, drum hand trucks, Morse Mfg. Co., Inc.  
**MORTEMOTH**, triple-strength crystal and spray insecticide, Mortemoth Chemical Laboratories  
**MOTH-ASEPTIC**, mothproofing germicide, Perma-Septic Corp.  
**MOTH-CHEM**, mothproofing agent, Chok Products, Inc.  
**MOTHPROOFITE**, insecticide, mothproofing concentrate, Mortemoth Chemical Laboratories  
**MOTHPRUF-D**, mothproofing, Atlantic Stainpruf Co., Inc.  
**MOTH-SAN**, mothproofing agent, Huntington Laboratories, Inc.  
**MOTH SEAL**, storage bags, Lincoln Bag Co., Inc.  
**MOTH SECTOL**, dual-action moth spray, Fumol Corp.  
**MOTOPUMP**, water supply pump, Yeomans Bros. Co.  
**MOTO-RACK**, garment carrier, G. H. Bishop Co.  
**MOTOR PUMP**, solvent and water pump, Ingersoll-Rand Co.  
**M. P. 189**, wetting and dispersing agent, Lewis National Corp.  
**M-28 and M-22**, insulating firebrick, Mexico Refractories  
**MULSOLITE**, lubricant, spotter, penetrant, R. R. Street & Co., Inc.  
**MULSOL-K**, overall cleaner, Laundry Chemicals Co.  
**MULTI-CLEAN**, rug scrubbing equipment, rug and upholstery shampoo, Multi-Clean Products, Inc.  
**MULTI-CUSHION**, felt padding, Pittsburgh Waterproof Co.  
**MULTIFLEX**, calcium carbonate, Diamond Alkali Co.  
**MULTIGRAPH**, hand-operated duplicating machine, Addressograph-Multigraph Corp.  
**MULTITHERM**, air-conditioning units, Clargase Gas Company  
**MULTI-V DRIVE**, V-belt drives and sheaves, Worthington Pump & Machinery Corp.  
**MUND'S**, inclined water tube boiler, Mund Boilers, Inc.  
**MURCO**, unit heaters, D. J. Murray Mfg. Co.  
**MUROZA**, feather cleaning and sterilizing system, American Laundry Machinery Co.  
**MW 50**, asbestos furnace cement, Philip Carey Mfg. Co.  
**MYRO**, water softeners, Hungerford & Terry, Inc.  
**MYSTRON**, drycleaning unit, U. S. Hoffman Machinery Corp.

## N

**N-C**, staples, Neva-Clog Products, Inc.  
**N-1**, plastic impregnated tags, ink, Wm. J. Nicholson Laboratories  
**N-M-D**, angle and globe valve, Lumkenheimer Co.  
**N-R-C**, enzymic digester, George E. Mead Co.  
**NACCONOL**, synthetic organic detergent, National Aniline Division, Allied Chemical & Dye Corp.  
**NAGEL**, garment hangers, Nagel Coat Hanger Co.  
**NAIROIL**, small oil burners, National Airoil Burner Co., Inc.  
**NALCO**, heating units for driers, North American Electric Lamp Co.  
**NALCO**, water-treatment chemicals, National Aluminate Corp.  
**NALCOMETER**, water-testing device, National Aluminate Corp.  
**NALOX**, nail polish remover, Warco Laboratories  
**NAMICO**, alkali compounds, laundry silk and woolen soap, National Milling & Chemical Co.  
**NAPOLENE PASTE FILTER SOAP**, drycleaning soap, Keystone Aniline & Chemical Co., Inc.  
**NAPSEPTIC**, sour, E. F. Drew & Co., Inc.  
**NAPSOAP 40**, laundry soap, E. F. Drew & Co., Inc.  
**NAPSOAP 60**, laundry soap, E. F. Drew & Co., Inc.  
**NAPSOID**, alkali compound, special detergents, E. F. Drew & Co., Inc.  
**NAPSOLV**, spotting agent, E. F. Drew & Co., Inc.  
**NAPSO**, medium titre powdered built soap, E. F. Drew & Co., Inc.  
**NAPSO 22**, oil built soap, E. F. Drew & Co., Inc.  
**NAPSOUR**, sour, E. F. Drew & Co., Inc.  
**NAPSUDS**, rug and carpet soap, E. F. Drew & Co., Inc.  
**NAPTIOLE**, alkali compound, special detergents, E. F. Drew & Co., Inc.  
**NAPHTHOLE B**, medium-high pH detergent, E. F. Drew & Co., Inc.  
**NAPTIOLE**, ironer oil, E. F. Drew & Co., Inc.  
**NAPTLEX**, oil built soap, E. F. Drew & Co., Inc.  
**NAPWAX**, ironer wax, E. F. Drew & Co., Inc.

**NASHUA**, double-face flannel, Nashua Mfg. Co.  
**NASHUA**, package sealing machine, Nashua Package Sealing Co.  
**NATIONAL**, cash registers, accounting machines, National Cash Register Co.  
**NATIONAL**, driers, stretchers, drying cabinets, tumblers, National Dryer Mfg. Co.  
**NATIONAL**, identification systems, labels, seals, price lists, tags, National Tag & Label Corp.  
**NATIONAL**, insurance, National Life Insurance Co.  
**NATIONAL**, marking equipment, marking ink, belt conveyor, National Marking Machine Co.  
**NATIONAL**, soot remover and rust preventative treatment, National Chemical Sales Co., Laboratory, Inc.  
**NATIONAL AIROIL**, oil burners and gas burners, National Airoil Burner Co.  
**NATIONAL LANG**, listing machines, National Marking Machine Co.  
**NATIONAL TAYFER**, sealing machine, Nashua Package Sealing Co., Inc.  
**NATIONAL TRUCK LEASING SYSTEM**, truck leasing and rental services, National Truck Leasing System  
**NAT-MAR-CO**, marking-machine supplies, National Marking Machine Co.  
**NEATS OIL**, belt dressing, Webb Belting Co.  
**NEBRYTE**, oil-gas burner, American Oil Co.  
**NECCHI**, sewing machines, Necchi Sewing Machine Sales Corp.  
**NEM-A**, shirt folding machine, J. W. Steele & Co.  
**NEO-FLOOR**, mastic floor resurfacer, Midland Paint & Varnish Co.  
**NEO-SHINE**, wax, Huntington Laboratories, Inc.  
**NEOTEK**, specialty soap, Turco Products, Inc.  
**NEPTUNE**, leather belt cement, Graton & Knight Co.  
**NE-TO**, starch, A. E. Staley Mfg. Co.  
**NEUTRAL**, acid sour, Lewis National Corp.  
**NEUTRA-LENE**, deodorant neutralizer, Davies-Young Soap Co.  
**NEUTRALEX FILTERS**, pH correction, Hungerford & Terry, Inc.  
**NEUTRA LUSTRE**, for rug cleaners, Standard Chemical Works Co.  
**NEUTRASOL**, synthetic detergent, Lewis National Corp.  
**NEUTRASUDS**, flake or powder, high titre tallow, soap compound, E. F. Drew & Co., Inc.  
**NEUTRATEX**, sour, Lewis National Corp.  
**NEUTRATIN**, sour, Lewis National Corp.  
**NEUTRO**, sour, Turco Products, Inc.  
**NEUTROGEN**, sour, Lewis National Corp.  
**NEUTRONAP**, sour, E. F. Drew & Co., Inc.  
**NEUTROPHOR**, laundry neutralizer and whiten-er, Carlton Chemical Co., Inc.  
**NEUTROSOAP**, neutral laundry soap, Carlton Chemical Co., Inc.  
**NEUTROTONE**, detergent, Eadriess Chemicals, Inc.  
**NEVA-CLOG**, stapling machines, Neva-Clog Products, Inc.  
**NEVA-SLIP**, pants clip, Commercial Tag Co.  
**NEVASTANE**, lubricant, Keystone Lubricating Co.  
**NEVER-SLIP**, collar protectors, Phoenix Products Co.  
**NEVERSLIP**, tie hangers, Memphis Hanger Co. & Pittsburgh Hanger Co.  
**NEVERSTRETCH**, feed ribbon, Southern Mills, Inc.  
**NEW DEPARTURE**, ball, radial and thrust bearings, New Departure, Div. General Motors Corp.  
**NEWMAN**, watchmen's clocks, Dextel Watch-clock Corp.  
**NEW-MATIC**, presses, New York Pressing Machinery Corp.  
**NEW NO. 30**, CLEANER, fur cleaner, Nycco Products Co.  
**NEW YORKER**, drycleaning, laundry presses, New York Pressing Machinery Co.  
**NIAGARA**, filter screens, Niagara Filter Corp.  
**NIAGARA**, water meters, Buffalo Meter Co.  
**NICE**, ball and thrust bearings, Nice Ball Bearing Co.  
**NICHOLSON**, strainers, floats, traps, W. H. Nicholson & Co.  
**NI-ROD**, electrode for machinable welds, International Nickel Co., Inc.  
**NIRO-FITE**, caulking compound, Philip Carey Mfg. Co.  
**NO-BAK**, ironer, Zephyr Laundry Machinery Co.  
**NO-CHLOR**, spotting agent, Nu-Pro Mfg. Co.  
**NO-CLIN**, ironer, Zephyr Laundry Machinery Co.  
**NO-EFFORT**, handkerchief and napkin press and handkerchief fluffer, American Laundry Machinery Co.  
**NOEX**, petroleum solvent drycleaning unit, drycleaning tumbler, American Laundry Machinery Co.  
**NORORODE**, drycleaning, laundry press pads, American Laundry Machinery Co.  
**NO-KRUSH**, garment carrier, U. S. Hoffman Machinery Corp.  
**NOLA TOILET SOAP**, soaps, Iowa Soap Co.  
**NO LAX**, rust agent, Warco Laboratories  
**NO-MAR TREATMENT**, stain and water repellent, Paper Chemicals, Inc.  
**NO-MIX**, bundle separators, Rosenthal Mfg. Co.  
**NO-MIX**, identification system, Checking System Co.  
**NOMOLD**, mold preventative, H. Kohnstamm & Co., Inc.  
**NO-NASH**, shirt carriages, Time Savers, Inc.  
**NO-NFER-AL**, calcium carbonate, Diamond Alkali Co.

**NON-SHIFT**, wire garment hanger, Para-Lux Products Co.  
**NON-SKID**, floor tiles, Virginia Greenstone Co., Inc.  
**NON X-1**, water repellent, Boston Clip & Tag Co.  
**NORCAD**, meters, timers and control devices, Norman & Co.  
**NORIT**, activated carbon, L. A. Salomon & Bro.  
**NORUST**, laundry sour, Washine National Sands, Inc.  
**NOR-WILL**, press covers, asbestos covers, Norton & Williams, Inc.  
**NORWOOD CASCADE**, washer, American Laundry Machinery Co.  
**NO-SNAG**, laundry marking fountain pen, Clean-er Specialties Supplies Co.  
**NOSOK**, non-enzymic digester, spot remover, George E. Mead Co.  
**NO-STRING MARK**, tape device for flatwork presses, Rosenthal Mfg. Co.  
**NOTASTANE**, lubricant, Keystone Lubricating Co.  
**NO-THREAD**, compression fittings, Dresser Mfg. Div., Dresser Industries, Inc.  
**NOTRUX**, mechanical loading and unloading extractor, American Laundry Machinery Co.  
**NO-VENT**, boiler return system, David Stout & Sons  
**NU-CLEANING**, synthetic drycleaning unit, U. S. Hoffman Machinery Corp.  
**NU-COAT**, glove and leather finish, National Cleaners Chemical Mfg. Co.  
**NU-FLU**, laundry sour, Johnson Chemical Industries, Inc.  
**NUMBERETTE**, hand numbering machine, American Numbering Machine Co.  
**NUMBER 5**, 11, 35, blues, Lewis National Corp.  
**NUMBER 4**, blue, stripper, Lewis National Corp.  
**NUMBER 44**, blue, Minnesota Chemical Co.  
**NUMBER 209**, general formula, R. R. Street & Co., Inc.  
**NU-NAP**, rug cleaner, Certified Chemical & Equipment Co.  
**NUODEX**, 87, mildew preventative, Nuodex Products Co., Inc.  
**NU-PRO**, ink and stain remover stick, Nu-Pro Mfg. Co.  
**NU-SHEEN**, dyeing service, Omaha Dye Works  
**NU-SHENE**, special alkali compounds, Speare Co.  
**NU-SO**, detergent, Nu-Pro Mfg. Co.  
**NU-SOL**, soap builders, Thompson-Hayward Chemical Co.  
**NU-SOLV**, spotting agent, Nu-Pro Mfg. Co.  
**NU-SUDE**, suede finishes, Eaton Chemical & Dyestuff Co.  
**NU-TEX**, drycleaning soap, Nu-Pro Mfg. Co.  
**NU-TEX-TIZE**, drycleaning detergent, Nu-Life Mfg. Co.  
**NUTRA SUDS**, neutral soap flakes, E. F. Drew & Co., Inc.  
**NUTROL**, synthetic wetcleaner, Keystone Aniline & Chemical Co., Inc.  
**NUTRONAP**, sour, E. F. Drew & Co., Inc.  
**NUTTING**, floor trucks, casters, wheels, Nutting Truck & Caster Co.  
**NU-WAY**, liquid filter soap, Davies-Young Soap Co.  
**NU-WOOD**, insulation board, Wood Conversion Co.  
**NYCCO**, insecticide, Nycco Products Co.  
**NYCCO**, prepared fur dyes, Nycco Products Co.  
**NYLCOT**, laundry net, Southern Mills, Inc.  
**NYLO**, filter and laundry bags, press covers and cloth, X. S. Smith, Inc.  
**NYLONETS**, nylon laundry nets, X. S. Smith, Inc.  
**NYLOTEX**, nylon press covers, X. S. Smith, Inc.  
**NYOTEX**, cotton-nylon nets, R. Lilly Co.  
**NYTIX**, press pads and covers, R. Lilly Co.  
**NYTRON**, synthetic detergent, Solvay Sales Div., Allied Chemical & Dye Corp.  
**NY-WUL**, press covers, Stadham Co., Inc.

## O

**O.I.C.**, all type valves, Ohio Injector Co.  
**O.T.**, laundry, drycleaning extractors, American Laundry Machinery Co.  
**OKAITE**, detergents, Okaito Products, Inc.  
**OKAITE PENETRANT**, detergent, Okaito Products, Inc.  
**OASIS**, drinking water cooler, Ebeco Mfg. Co.  
**OBARK**, leather belting, waterproof leather belting, Charlotte Leather Belting Co.  
**OBILT**, stain remover, H. Kohnstamm & Co., Inc.  
**OCDO**, extractor baskets, Ohio Centrifugals Co.  
**OFDO-STICK**, garment odor remover in stick form, Nu-Pro Mfg. Co.  
**OFELDIT**, boiler, Mearns-Kane-Ofeldt, Inc.  
**OILGO**, concentrated spotting agent, Carman & Co., Inc.  
**OILITE**, self-lubricating bearings, machine parts, Amplex Div., Chrysler Corp.  
**OIL-KLEEN**, oil remover, Kem Laboratories  
**OIL-RITE**, oil cups, oilers, Oil-Rite Corp.  
**OILZOUT**, oil remover, Washine National Sands, Inc.  
**O.K. PEARL STARCH**, corn starch, Hubinger Co.  
**O.K. POWDERED STARCH**, corn starch, Hubinger Co.  
**O.K. THIN BOILING STARCH**, corn starch, Hubinger Co.



OLATE FLAKES, low-titer soap, Procter & Gamble Distributing Co.  
 OLIVE C. soap, Stadham Co., Inc.  
 OLIVESCO, detergent, Cowles Chemical Co.  
 OLSENMARK, marking inks, marking machinery, stamping presses, Olsenmark Corp.  
 OLSON, pressure filters, solvent stills, Olson Filtration Engineers, Inc.  
 OLSON KUBB SIDE, aluminum package delivery body, J. B. E. Olson Corp.  
 OLYMPIC, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
 OMNI-SOUR, laundry sour, Carlton Chemical Co., Inc.  
 140-F, safety petroleum drycleaning equipment, U. S. Hoffman Machinery Corp.  
 ONE-LAY, shirt finishing machine, J. W. Steele & Co.  
 123, starch, A. E. Staley Mfg. Co.  
 \$1000.00 GUARANTEED, insecticides, B. Heller Co.  
 ON-THE-SPOT, synthetic drycleaning equipment, A. B. Temple Co.  
 OPALOID, buttons, Stadham Co., Inc.  
 OPENETS, laundry nets and fabrics, Davis Mills Inc.  
 OPEN-TOP, extractors, Prosperity Co., Inc.  
 OPERATIVE TI-ME-TER, time signals, visual, audible equipment control, Biddwell Mfrs.  
 OPTO-MATIC, constant level oilers, Trico Fuse Mfg. Co.  
 ORATOL L-48, synthetic detergent, Jacques Wolf & Co.  
 ORB, wool padding, Orr Felt & Blanket Co.  
 ORTHOLATE, laundry chemical, Diamond Alkali Co.  
 ORTHOSILICATE, detergent, Diamond Alkali Co.  
 ORVUS, wetcleaning detergent, Procter & Gamble Distributing Co.  
 ORVUS EXTRA GRANULES, synthetic detergent, Procter & Gamble Distributing Co.  
 ORVUS W. A. PASTE, wetcleaning detergent, Procter & Gamble Distributing Co.  
 OSPECO, concentrated drycleaning soap, Oil States Petroleum Co., Inc.  
 O SPOTTER, stain remover, H. Kohnstamm & Co., Inc.  
 OTTER, waterproof leather cement, Virginia Leather Co.  
 OUTSERITS, package insert, Allied Printing & Stationery Co., Inc.  
 OVALCLEN, drycleaning fluid, E. I. du Pont de Nemours & Co., Inc.  
 OXALATE A, sours, Standard Chemical Works Co.  
 OXYFUME, fumigant, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.  
 OZITE, insulation, laundry felt, American Hair & Felt Co.  
 OZONITE, built soap, Procter & Gamble Distributing Co.

## P

PB, laundry marking tags, Boston Clip & Tag Co.  
 PC 450, neutral vegetable potash soap, E. F. Drew & Co., Inc.  
 P.D.Q., detergent, Nu-Pro Mfg. Co.  
 P.F.S., soap, Nu-Pro Mfg. Co.  
 P.M., variable speed changers, Link-Belt Co.  
 P.M., built soap, Thompson-Hayward Chemical Co.  
 P-R, colorless paint and varnish remover, Caled Products Co., Inc.  
 PAASCHIE, airbrushes, air painting equipment, Paaschie Airbrush Co.  
 PACE, drycleaning soap, Caled Products Co., Inc.  
 PACIFIC, borax and sodium sesquicarbonate, Pittsburgh Plate Glass Co., Columbia Chemical Div.  
 PACIFIC, soap bluing, Beach Soap Co.  
 PACKLESS, flexible hose couplings, Packless Metal Products Corp.  
 PADRIGHT STEEL WOOL PADDING, press and ironer pads, padding, Padright Co.  
 PAINT-CATER, paint remover, W. F. Johnson Products Co.  
 PAINT-SOLV, paint remover, Huntington Laboratories, Inc.  
 PAISLEY, general line adhesives, Paisley Products, Inc.  
 PAK-AGE-KART, packaged work transporter, G. H. Bishop Co.  
 PALM, palm oil soap, Swift & Co.  
 PALMETTO, cotton belting, Victor Balata & Textile Belting Co.  
 PALMOIL, soap, Rome Soap Mfg. Co.  
 PALM ROSE, soaps, Iowa Soap Co.  
 PAMCO, straight pins, Fison Mfg. Co.  
 PANAREX CO., recorder, Permutit Co.  
 PANTEX RHODES NATIONAL HATTEY, hat blocking machine, Panter Mfg. Co.  
 PANTS HORSE, trouser rack, R. B. Smith Co.  
 PAPER-STRUT, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.  
 PARACOL, water heaters, Davis Engineering Corp.  
 PARAGENE, stripper, Eaton Chemical & Dyestuff Co.  
 PARAGON, lubricator, Lunkenheimer Co.  
 PARALATE, alkali compound, Diamond Alkali Co.

PARAMOUNT, garment, trouser bags, hanger covers, Mutual Paper Box Co., Inc.  
 PARA-SEAL, hanger cover, Para-Lux Products Co.  
 PARAZOLO, spot remover, Eaton Chemical & Dyestuff Co.  
 PARAZYME, digestive agent, enzyme spotting, Carman & Co., Inc.  
 PARIS CONVERTIBLE, steam-air finishers, Garment Finishing Equip. Co.  
 PARIS, steam-air garment finisher, Garment Finishing Equipment Corp.  
 PARISIAN, sleeve former, U. S. Hoffman Machinery Corp.  
 PARKER, industrial boilers, Sid E. Parker Boiler Mfg. Co., Inc.  
 PARMELEE, wrench, Walworth Co.  
 PAROL, special alkali compounds, Speare Co.  
 PARR, typewriter keys, rubber fingertips, Speed Products Co., Inc.  
 PARROT, binder clips, Speed Products Co., Inc.  
 PAR-X, stain remover, H. Kohnstamm & Co., Inc.  
 PATCH MASTER, repair cloth kits, R. D. Busard & Son  
 PATEX-PAC, printed garment bags, shirt envelopes, Patek & Co.  
 PATINEX, upholstery shampoo, cleaning compound, Mortemoth Chemical Laboratories  
 PATINE FURLIFE, fur shampoo, cleaning compound, Mortemoth Chemical Laboratories  
 PATRICK, steam iron, Lawrence M. Stein Co.  
 PATROL, watchmen's clocks, Dretz Watch Co.  
 PATTERSON-KELLEY, condensers, coolers, Patterson-Kelley Co., Inc.  
 PATTERSON'S, bleach, Patterson Laboratories.  
 PAWNEE, alkali soap builder, Wyandotte Chemicals Corp.  
 PAY-TEX, drycleaning soap for synthetic solvent  
 PAY-TEX, stain remover, H. Kohnstamm & Co., Inc.  
 PAYTEXOL, oil, paint and grease remover, Patek & Co.  
 P/C 450, vegetable potash soap, E. F. Drew & Co., Inc.  
 PEABODY, gas, oil, coal burners, air heaters, Peabody Engineering Corp.  
 PEARL, built soap, lumps and granulated, Colgate-Palmolive-Peet Co.  
 PEELCOATE, protective coating for metal parts, Watson Standard Co.  
 PEERLESS, laundry cover cloth, two-ply covers, Luck, Thompson Mills  
 PEERLESS, pumps, Peerless Pump Div., Food Machinery Corp.  
 PEERLESS, scales, Triner Scale & Mfg. Co.  
 PEERLESS BEACON, laundry marking tags, Boston Clip & Tag Co.  
 PEET, white laundry bar soap, Colgate-Palmolive-Peet Co.  
 PEE-VEE, lacquer remover, Riverside Mfg. Co.  
 PELATONE, fur cleaning and finishing compound, Carman & Co., Inc.  
 PELLERIN-MILNOR, laundry, drycleaning extractors, Pellerin Milnor Corp.  
 PENBRITE, alkaline detergent, Pennsylvania Salt Mfg. Co.  
 PENETEX, detergent, Stadham Co., Inc.  
 PENETRO, marking ink, National Marking Machine Co.  
 PENETROIL, grease solvent, H. Kohnstamm & Co.  
 PENETRON, glue solvent, Better Packages, Inc.  
 PENETRON, starch, H. Kohnstamm & Co., Inc.  
 PENNANT, drycleaning soap, Davies-Young Soap Co.  
 PENNSYLVANIA, tires, tubes, batteries, Pennsylvania Rubber Co.  
 PENOXONE, bleach, Pennsylvania Salt Mfg. Co.  
 PENSAAL, alkaline detergent, Pennsylvania Salt Mfg. Co.  
 PENSAAL-B, alkaline detergent, Pennsylvania Salt Mfg. Co.  
 PENSAAL-M, alkaline detergent, Pennsylvania Salt Mfg. Co.  
 PENSAAL-O, alkaline detergent, Pennsylvania Salt Mfg. Co.  
 PERLO, spotting agent, A. L. Wilson Chemical Co.  
 PENTRATE, penetrant, American-La-France-Fosmire Corp.  
 PERFECTON, spotting aid, Kennedy Products Co.  
 PEPO, prespotter, Stadham Co., Inc.  
 PEPOL, drycleaning filter soap, A. F. Wolke Co.  
 PER, automatic drycleaning unit, Vie Cleaning Co.  
 PERCHLORON, bleach, Pennsylvania Salt Mfg. Co.  
 PERCHLOR 600, drycleaning unit, Manitowoc Mfg. Div. of Manitowoc Shipbuilding Co.  
 PERCILENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.  
 PERDOX, sodium perborate monohydrate, E. I. du Pont de Nemours & Co., Inc.  
 PERFECT, wheat starch, Keever Starch Co.  
 PERFECTA, steam and air spotting gun, Florian J. Hyman (British firm)  
 PERFECTON, corn starch, Huron Milling Co.  
 PERFECTION, staple tags, Tagit Co.  
 PERFECTION, white neutral soap, Beach Soap Co.  
 PERFECTO, synthetic powder, National Cleaners Chemical Mfg. Co.  
 PERFECT WHEAT, laundry starch, Keever Starch Co.  
 PERFEX, controls and regulators, gauges, Perflex Corp.  
 PERFEX, press pads, Resillo Co.

PERK, synthetic drycleaning machine, Pantex Mfg. Co.  
 PERKLOR, synthetic solvents, Dow Chemical Co.  
 PERLITE, soap builder, H. Kohnstamm & Co., Inc.  
 PERMAFIBER MARKING, fiber material for manufacturing laundry and drycleaning tags, Permafiber Corp.  
 PERMA-A-KLEEN, perchlorethylene solvent, Deseret Corp.  
 PERMA-MARKER, marking kit, Wm. J. Nicholson Laboratories  
 PERMA-NET - MARKERS, identification tags, Speare Co.  
 PERMA-NETS, rubber washing nets, Speare Co.  
 PERMANITE, acid and alkali resisting flooring, Maurice A. Knight  
 PERMA-PROOF, flameproofing agent, B. F. Goodrich Co.  
 PERMA-ASEPTIC, germicide, fungicide antiseptic, Ferm-Aseptic Corp.  
 PERMA-A-TEX, nylon press covers, X. S. Smith, Inc.  
 PERMATIZED, marking tags and tape, indelible marking ink, Wm. J. Nicholson Laboratories  
 PERMO, flameproofing, mothproofing agent, Permo Products Co.  
 PERMOBOND, rubber-lined tanks, pipe and pipe fittings, U. S. Rubber Co.  
 PERMOFAD, pads for handkerchief ironer, Resillo Co.  
 PERMOTEX, nylon press covers, X. S. Smith, Inc.  
 PERMUTTI, water softeners, filters, Permutit Co.  
 PERMUTIT Q, ion exchanger, water conditioner, Permutit Co.  
 PERONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.  
 PERSONALIZED, garment bags, Nasenfos Bag Co., Inc.  
 PERSPIR-X, perspiration remover, Paper Chemicals, Inc.  
 PETAL SMOOTH, starch, Clinton Foods, Inc.  
 PETRO, oil burners, pumps and heaters, water heaters, Petroleum Heat & Power Co.  
 PETRYN, oil, paint and grease remover, Patek & Co.  
 PHILABELT PRESERVATIVE, belt dressing, Philadelphia Belting Co.  
 PHILCO, storage batteries, Philco Corp.  
 PHOENIX "SELF STICK", shirt bands, Phoenix Products Co.  
 PHOTOSWITCH, timers, pilot relays, controls, Photowatch, Inc.  
 PHOTONIC, photoelectric cell, Weston Electrical Instrument Corp.  
 PH-PLUS, briquet alkali for water softening, Mathieson Chemical Corp.  
 PICK, water heaters, Pick Mfg. Co.  
 PICRIN, volatile spotting compound, R. R. Street & Co., Inc.  
 PIEDMONT, leather belting, waterproof leather belting, Charlotte Leather Belting Co.  
 PINLUB, wetcleaning soap, Package Chemical Co., Inc.  
 PIN-O-TEX, pine oil detergent, Slater-Robbins Co., Inc.  
 PIONEER, nylon laundry nets, Benwall Mfg. Co., Inc.  
 PITTCOLOR, calcium hypochlorite, Pittsburgh Plate Glass Co., Columbia Chemical Div.  
 PITTSBURGH, paints, Pittsburgh Plate Glass Co., Paint Div.  
 PLANER BRAND, leather belting, Philadelphia Belting Co.  
 PLASTIC QUIK-PACIL, plastic firebrick, A. P. Green Firebrick Co.  
 PLASTILON, nylon laundry nets, Carson Textile Co., Inc.  
 PLEASANT ODOR, fur cleaning fluid, Bernard Sirotta Co.  
 PLEX, digester, Patek & Co.  
 PLEZURE, spotting soap, Caled Products Co., Inc.  
 PLIBRICO, jointless firebrick, furnace wall, boiler setting, furnace inspection doors, Plibrico Jointless Firebrick Co.  
 FLICAST, castable refractory material, Plibrico Jointless Firebrick Co.  
 PLUSULITE, insulating material, Plibrico Jointless Firebrick Co.  
 PLUS, spotter (wet or dry), Adco, Inc.  
 PNEU-MAT, woven rubber mat, A. N. Hargreaves Co.  
 POCKETERS, pocket form, Leaf Blower Co.  
 POLAR, moth preventative, Barrett Div., Allied Chemical & Dye Corp.  
 POLAR BEAR, fur cleaner, Walter Haertel Co.  
 POLARIS, fur glazing cleaner, Walter Haertel Co.  
 POLARSUD, cold-water built soap, Beach Soap Co.  
 POLARTONE, laundry sour, G. S. Robins & Co.  
 POMONA, turbine pumps, Fairbanks, Morse & Co.  
 PONCHO, wet water repellent, Patex & Co.  
 PONY, laundry presses, Prosperity Co., Inc.  
 POON PETER PILLOW, complete pillow cleaning service, R. Lilly Co.  
 POPKINS, store fixtures, Popkins Studios Fixtures Co.  
 PORTO-FAB, prefabricated buildings, Porto-Fab Co., Inc.  
 POSITEMP, temperature control for digesters, Cleaners Specialties Supplies Co.  
 POSTAGE-METER, postage meter tape, Gummed Tape & Devices Co.  
 POW, drycleaning soap, Keystone Aniline & Chemical Co., Inc.  
 POWDERED HAWKEYE SOAP, soaps, Iowa Soap Co.  
 POWDERENE, bleaching powder, West Side Corp.

**POWER CIRCLE**, presses, Prosperity Co., Inc.  
**POWER-FLEX**, underfeed stokers, Link-Belt Co.  
**POWER-FLOW**, roof ventilator, DeBotheat Fans Div., American Machine & Metals, Inc.  
**POWERMASTER**, automatic steam generator, Orr & Semberow, Inc.  
**POWERMASTER**, stacker, Lewis-Shepard Products, Inc.  
**POW PLUS**, dry powdered soap, Keystone Aniline & Chemical Co., Inc.  
**POWER PLUS**, air-operated laundry presses, Panter Mfg. Corp.  
**PRATT & CADY**, brass and iron valves, Reading-Pratt & Cady Div., American Chain & Cable Co., Inc.  
**FREE-HEET**, return systems, Fred H. Schaub Engineering Co., Inc.  
**FREE-SPOTTER**, concentrated prespotter, Raychem Products Co.  
**PREFERRED**, generators, Preferred Utilities Mfg. Corp.  
**PRE-MARKED STRIP TAG**, solvent and waterproof marking tags, Pre-Marked Strip Tag Co.  
**PRESET**, a type of free-vane air-operated control, Bristol Co.  
**PRE-SGRIP**, shaping and finishing wetcleaned and dyed goods, Pres-Grp Corp.  
**FRESNO**, heavy prespotter, G. & G. Chemical Co.  
**FRESPOTTER**, S. prespotter, Nu-Pro Mfg. Co.  
**FRESPOTTER 23**, prespotter, Patek & Co.  
**FRESS KING**, latex press pads, Fulco Corp.  
**FRESSRITE**, press padding, Poro-Pres Co.  
**FRESSITITE**, flexible metal connector for modern laundry and pressing machines, American Brass Co., American Metal Hose Branch  
**FRESTO**, self-sealing paper bands, Sure-Hold Div., Nashua Gummed & Coated Paper Co.  
**FRESTO CLEANER**, press-head cleaner, Stadium Co., Inc.  
**FRESTOPRESS**, air-operated dycleaning presses, Goldman Pressing Machine Corp.  
**FRIDE**, washing powder, Swift & Co.  
**FRIMA BRAND**, leather belting, Philadelphia Belting Co.  
**PRIME-KOTE**, roof coating, Philip Carey Mfg. Co.  
**PRIME SOAP**, soap, Beach Soap Co.  
**PRIMS COVER A BUTTON**, button molds, William Frym, Inc.  
**PRINCESS**, wire hangers, Vail Mfg. Co.  
**PRINTED STRING**, cotton tape, Milwaukee Printed String Co.  
**PRINTWEIGH**, weight printing scales, Toledo Scales Co.  
**PROCTOR & SCHWARTZ, INC.**, automatic shampooing and drying systems for rugs, Proctor & Schwartz, Inc.  
**PRODUCTMETERS**, counting and measuring machines, Durant Mfg. Co.  
**PRODUCTO**, timer, American Laundry Machinery Co.  
**PROLYTE**, enzymic digestive agent, Allen & Vickers, Inc.  
**PROPASOL**, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon  
**PROSPERITY**, complete line of laundry air-ry-cleaning equipment, Prosperity Co.  
**PROSPERITY APRONS**, chlorine and alligator F.W.I. aprons, Carman & Co., Inc.  
**PROSPERITY BLUE**, concentrated laundry blue, Carman & Co., Inc.  
**PROSPERITY**, automatic washer controls, Prosperity Co., Inc.  
**PROSPOWAX**, powdered F.W.I. wax, Carman & Co., Inc.  
**PROTECTO**, identification system, American Laundry Machinery Co.  
**PRO-TEK**, protective hand cream, E. I. du Pont de Nemours & Co., Inc.  
**PROTEX TOILET SOAP**, soaps, Iowa Soap Co.  
**FRYMS**, garment hangers, safety pins, William Frym, Inc.  
**P22**, hand stapler, Arrow Fastener Co.  
**PUP-FINISHER**, garment finisher, G. H. Bishop Co.  
**PULLCLEAN**, continuous towel cabinets, Pull-clean Towel Cabinet Co., Inc.  
**PULVOAX**, powdered wax, Lewis National Corp.  
**PURATITE**, mildewproofing, Aqua Sea Corp.  
**PURE-TEX**, laundry bactericide, Cidex Corp.  
**PURGE-O-SOL**, dycleaning soap, G. & G. Chemical Co.  
**PURGO**, soap builder, Minnesota Chemical Co.  
**PURITY**, soap flakes, soap, Iowa Soap Co.  
**PURITY**, soap, Thompson-Hayward Chemical Co.  
**PURKETT**, shakeout and conditioning tumblers, assembly reels, bins, Purkett Mfg. Co.  
**PURO**, spotting compound, Adco, Inc.  
**PUR-O-CEL**, filter, Proportioners, Inc.  
**PUR-O-SAN**, dycleaning soap, Huntington Laboratories, Inc.  
**PURPLE EDGE**, padding, Egan Cotton Mills  
**PURAMID**, laundry nets, R. Lally Co.  
**PYRAMID**, liquid color stripper, Washine National Sands, Inc.  
**PYRATLEX**, lipstick, nail polish, paint remover, R. R. Street & Co., Inc.  
**PYRENE**, fire extinguishers, Pyrene Mfg. Co.  
**FYRO**, surface thermometer, Pyrometer Instrument Co., Inc.  
**PYROFLEX**, acid and alkali resisting paints, Maurice A. Knight  
**PYROPRUF**, flameproofing compound, Atlantic Stainproof Co.  
**FYRO**, liquid soap, National Cleaners Chemical Mfg. Co.  
**FYRO-SOAP**, wetcleaning soap, National Cleaners Chemical Mfg. Co.  
**FYTROTIN**, pyrometers, Bailey Meter Co.

## Q

**Q & S**, counter rack, Ink-O Products Co.  
**QJ**, spotting agent, A. L. Wilson Chemical Co.  
**Q-T**, heat rectulators, Kisco Boiler & Engineering Co.  
**Q-CHROMASTIC**, veneer coating for furnace wall, Quigley Co., Inc.  
**Q-CHROME**, refractory material, Quigley Co., Inc.  
**Q-1**, airform coat finisher, U. S. Hoffman Machinery Corp.  
**Q-7**, drier or semi-finisher, U. S. Hoffman Machinery Corp.  
**Q-2**, airform ladies' jacket finisher, U. S. Hoffman Machinery Corp.  
**QUADRAFOS**, water conditioner, detergent, dispersing agent, Rumford Chemical Works  
**QUAKER BLUE**, laundry blue, Pennsylvania Salt Mfg. Co.  
**QUAKER IMPROVED**, chlorinated lime, bleach, Pennsylvania Salt Mfg. Co.  
**QUALITEK**, press covers, puff iron covers, sponge pads, Quality Products Co.  
**QUEEN**, wire hangers, Vail Mfg. Co.  
**QUICK AID FIRE GUARDS**, fire extinguishers, General Detroit Corp.  
**QUICK BREAK**, break powder, Wyandotte Chemicals Corp.  
**QUICKLIFT**, trucks, Lewis-Shepard Products, Inc.  
**QUIGLEY**, fire brick, Quigley Co., Inc.  
**QUIK-CUT**, wrapping table, Coffman Mfg. Corp.  
**QUIK-CUT**, wrapping table, Norman & Co.  
**QUIK-LOK**, collar protector, Steinman Paper Co.  
**QUIK-LOK**, shirt boxes and collar supports, Century Paper Products  
**QUIK-PACH**, fire brick, A. P. Green Fire Brick Co.  
**QUIK STEAM**, press, Butler Mfg. Co.  
**QUIKTAG**, laundry marking tag, Boston Clip & Tag Co.  
**QUIK-TEMP**, heating system, Fred H. Schaub Engineering Co., Inc.

## R

**R.C.C.**, rug cleaning and finishing compound, soaps, Lewis National Corp.  
**R.C.U.**, rug and upholstery soap, Keystone Aniline & Chemical Co., Inc.  
**R. F. C.**, stain remover, Riverside Mfg. Co.  
**R-K**, valves and regulators, Ruggles, Klingemann Mfg. Co.  
**R-M**, asbestos products, packing, friction materials and rubber products, Raybestos-Manhattan, Inc.  
**RP**, high pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.  
**RSR**, digestive spotting agent, Wallerstein Co., Inc.  
**R-X**, spotter, Caled Products Co., Inc.  
**RADIANT**, continuous tumbler, Radiant Drying Co.  
**RAINBOW**, marking tags, Triple "M" Inc.  
**RAINBOW**, plastic garment hangers, Henry Hanger Co. of America  
**RAINBOW**, spotting pencils, Eaton Chemical Div. Co.  
**RAK-GUIDE**, rack index for separating garments alphabetically, Para-Lux Products Co.  
**RAM**, dycleaning soap, Adco, Inc.  
**RAMPELLENT**, water repellent, Perm-Aspetic Corp.  
**RAMSEY**, chain drive, chain drive sprockets, shaft couplings, Ramsey Chain Co., Inc.  
**RAMITE**, plastic refractory, Ramitte Co., Div. S. Ohmeyer Co.  
**RANAREX**, combustion recorder, Permutit Co.  
**RANDE**, metal press pads, Bergen Machine & Tool Co., Inc., Rande Unit Springs Div.  
**RAPID POWER BOOSTER**, portable power belt conveyor, Rapids-Standard Co., Inc.  
**RAPID ROLLER**, conveyor, Rapids-Standard Co., Inc.  
**RAPID-WHEEL**, conveyor, Rapids-Standard Co., Inc.  
**RAY**, oil and gas burners, pumps, Ray Oil Burner Co.  
**RAYBESTOS**, brake lining, clutch facing, brake blocks, Raybestos-Manhattan, Inc.  
**RAY-METL**, clutch facings, Raybestos-Manhattan, Inc.  
**RAYOSAP**, moisture-bearing dycleaning soap, Raychem Products Co.  
**RATS**, tape, Spear Box Co., Inc.  
**RE-CLARK**, packing supplies, Spear Box Co., Inc.  
**RAYTEN**, cold-water soap, John T. Stanley Co., Inc.  
**READY-PACK**, cast split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.  
**RECEIV-O-MARKER**, identification systems, Best Forms Co.  
**RE-CLARK-IT**, circuit breakers, Heinemann Electric Co., Inc.  
**RECLAMITE**, stain remover, H. Kohnstamm & Co., Inc.  
**RECORD-A-CALL**, telephone forms and registers, Econo-Pak Register Co.  
**RECORDAK**, accounting machines and systems, record systems, Recordak Corp.  
**RED ARROW**, feed ribbon, Southern Mills, Inc.  
**RED EDGE**, pads and padding for flatwork ironers and press machines, Knitted Padding Co.  
**RED FLASH**, water heaters, Pick Mfg. Co.

**RED & GREEN LINE**, laundry fabrics, Hettrick Mfg. Co.  
**RED HEAD**, laundry and dycleaning presses, Forse Equipment Corp.  
**REDLIFT**, trucks, Lewis-Shepard Products, Inc.  
**REDI-TAG**, pre-printed marking tag, Lorton Products Co., Inc.  
**RED LABEL**, tallow soap, Beach Soap Co.  
**RED LINE**, cotton goods, Pittsburgh Waterproof Co.  
**RED-LINE**, garment drier, Hopkins Equipment Co.  
**RED LINE**, greases, oils, lubricants, Union Oil Co. of California  
**REDOTEX**, neutral red oil flakes and powder, Allen B. Wrisley Co.  
**RED STAR**, diapers, towels and toweling, George Wood, Sons & Co.  
**RED STAR**, feed ribbons, L. H. Gilmer Co., Div. U. S. Rubber Co.  
**REDUCO**, liquid color stripper, Washine National Sands, Inc.  
**REDUCTORS**, speed reducers, Boston Gear Works, Inc.  
**REDUX**, indelible ink remover, Boston Clip & Tag Co.  
**REDUX**, powdered laundry soap, Minnesota Chemical Co., Inc.  
**REEVES ARMY TWILL**, uniform cloth, Reeves Brothers, Inc.  
**REFINITE**, zeolite water softeners, Refinite Corp.  
**REFLEXIT**, replasticizer, Patek & Co.  
**REGAL**, engines, Ames Iron Works  
**REGAL**, laundry indelible ink, I. Geller & Son  
**REGAL**, neutral synthetic detergent, Armour & Co.  
**REGENT**, 30-pound synthetic dycleaning unit, Detrex Corp.  
**REHAB**, powdered soap, soap chips, Minnesota Chemical Co.  
**RELIABLE**, rug cleaning and fur storage equipment, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.  
**RELIANCE**, a.c. and d.c. motors, motor generators, Reliance Electric & Engineering Co.  
**RELIEF**, spotter, Murphy Sales Co.  
**RE-LOGIK**, powdered soap, Minnesota Chemical Co.  
**REMA**, vacuum systems for presses, Rema Corp.  
**REMO**, cover cloth fasteners, rack clips, net and marking pins, trays, safety and steel pins, overall tags, Rudson Mfg. Co.  
**RENARDS'**, leather cleaning and dyeing, Renards' RENEWO, angle and globe valve, Lunkenheimer Co.  
**RENEK**, detergents, Atlas Powder Co., Industrial Chemicals Dept.  
**RE-NU**, potash saponified resin and fatty acids, Armour & Co.  
**RENUIT**, liquid starch, Washine National Sands, Inc.  
**REO**, motor trucks, Reo Motors, Inc.  
**REPEL**, water repellent, R. R. Street & Co., Inc.  
**REPEL-O-MOTH TANK**, mothproofing equipment, Repel-O-Products Div., North American Merchandising Co.  
**REPUBLIC**, controls, instruments, Republic Flow Meters  
**RE-FURGO**, powdered soap, Minnesota Chemical Co.  
**RESEARCH**, zeolite, Research Products Corp.  
**RESILLO**, press pads, Resillo Co.  
**RESISTI-CAL**, water repellent, Caled Products Co., Inc.  
**RESISTO**, water repellent, Resisto Laboratories  
**RESIZIT**, sizing, Takami Laboratory, Inc.  
**RESSYN**, zeolite, Hungerford & Terry, Inc.  
**RESTOREX**, liquid sizing, National Cleaners Chemical Mfg. Co.  
**RESYN ADHESIVES**, glues, gums, sizings, starches, National Starch Products, Inc.  
**RETROIN**, flatwork ironer, American Laundry Machinery Co.  
**RE-VI**, water repellents, Davies-Young Soap Co.  
**REVOLITE**, laundry roll covers, padding, press covers, Revolute Division, Atlas Powder Co.  
**REX**, soluble liquid dycleaning soap, Davies-Young Soap Co.  
**REX**, soap, Kern Laboratories  
**REX-FLEX**, metal hose, Chicago Metal Hose Corp.  
**REX-HITE**, heat-proof reattachable couplings, Chicago Metal Hose Corp.  
**REX-TUBE**, flexible metal hose, Chicago Metal Hose Corp.  
**REX-WELD**, metal flexible hose, tubing, Chicago Metal Hose Corp.  
**REZEX**, resinous zeolite, Elgin Softener Corp.  
**R-81**, dycleaning unit, Shields Engineering & Mfg. Co.  
**R-81A**, dycleaning unit, Shields Engineering & Mfg. Co.  
**RIBBON DELUXE**, cotton ribbon, Milwaukee Printed String Co.  
**RIBBON-RITE**, marking machine, Textile Marking Machine Co., Inc.  
**RICE'S**, paint products, U. S. Gutta Percha Paint Co.  
**RICHMOND**, leather belting, Virginia Leather Co.  
**RIMACO**, size, stripper, wetcleaning soap, Riverside Mfg. Co.  
**RIMACO GENERAL FORMULA**, ink and stain remover, Riverside Mfg. Co.  
**RINTEX**, soap and alkali compound, Wyandotte Chemical Corp.  
**RUSDON**, cuff fasteners, marking flags and targets, Rudson Mfg. Co.  
**RIVERSIDE**, wet spotter, carpet shampoo, stripper, Riverside Mfg. Co.

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**ROADOL**, paint, oil and grease remover, Package Chemical Co., Inc.  
**ROADOL L**, wet spotter, Package Chemical Co., Inc.  
**ROBERTS**, numbering machine, Roberts Numbering Machine Co.  
**ROBINITE**, soap powder, G. S. Robins & Co.  
**ROBINOL**, wetting agents, G. S. Robins & Co.  
**ROBOT**, self-contained automatic washers, Robot Laundry Machinery Sales, Div. Wolf Co.  
**ROCCAL**, germicide, Sterwin Chemicals, Inc.  
**ROCKET**, laundry presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**ROCKWEAVE**, laundry textiles, aprons, cover and filter cloth, double-face flannel, laundry nets, Callaway Mills, Inc.  
**ROCKWELL**, valves, steam traps, W. S. Rockwell Co.  
**RODALON**, non-staining disinfectant, Fairfield Laboratories  
**RO-FLO**, air compressors, vacuum pumps, Allis-Chalmers Mfg. Co.  
**ROK-RIB**, laundry nets, Whitehouse Products, Inc.  
**ROLA-RUG**, rug rolling and packaging machines, Lincoln Products, Inc.  
**ROLL-O**, trouser guards, Paulin Products Co.  
**RONAFLEX**, elastic synthetic tubing with woven metal wire cover, Ronaflex Tubing Co., Inc.  
**RO-NOR**, stain remover, H. Kohnstamm & Co., Inc.  
**ROOFKOTER**, roof material, Tropical Paint & Oil Co.  
**ROOT BAGGER**, garment bagger, Huebsch Div., American Laundry Machinery Co.  
**ROTAIRE**, conditioning tumbler, American Laundry Machinery Co.  
**ROTARY**, soot blower, Marion Machinery Foundry & Supply Co.  
**ROTIX**, extractor, American Laundry Machinery Co.  
**ROTH**, boiler feed units, pumps, Roy E. Roth Co.  
**ROTO BRUSH**, electric upholstery shampoo machine, Certified Chemical & Equipment Co.  
**ROTO-KLEEN**, filter, Bowas, Inc.  
**ROTO-MATIC**, rotating laundry process units, Unipress Co.  
**ROUND "R"**, steel boiler, coal, oil, gas stoker, Kewanee Boiler Co.  
**ROUND THE BUTTON**, shirt-ironing press pads, Resillo Co.  
**ROYAL**, brass safety pins, Rudson Mfg. Co.  
**ROYAL**, medium-titer, coco-tallow chip, neutral soap, Armour & Co.  
**ROYAL**, rubber hose, rubber belting, U. S. Rubber Co.  
**ROYAL CALENDER**, cylinder type flatwork ironer, American Laundry Machinery Co.  
**ROYAL OAK**, leather belting, Webb Belting Co.  
**ROYAL FINE**, soap, Iowa Soap Co.  
**ROYAL WORCESTER**, belt cement, Graton & Knight Co.  
**RP NO. 757**, stain remover, H. Kohnstamm & Co., Inc.  
**RUBBER CITY**, roofing materials, Rubber City Mfg. Co.  
**RUBEROID**, built-up roofing materials, Ruberoid Co.  
**RUGGLO**, rug cleaning soap, Merson Products Co.  
**RUG-IT**, rug cleaning detergents, Certified Chemical & Equipment Co.  
**RUG-O**, rug and carpet soap, Davies-Young Soap Co.  
**RUSCO**, rubber belting, woven belting, press tape, Russell Mfg. Co.  
**RUST BAR**, paint, rust preventative, Midland Paint & Varnish Co.  
**RUST-E-LIM**, rust remover, Johnson Chemical Industries, Inc.  
**RUSTEX**, sour, Hood Chemical Co., Inc., Crescent Div.  
**RUSTEZE**, rust solvent, Hood Chemical Co., Inc., Crescent Div.  
**RUSTGO**, rust remover, A. L. Wilson Chemical Co.  
**RUSTICK**, rust remover, National Cleaners Chemical Mfg. Co.  
**RUSTICON SS**, rust preventative, Philadelphia Quartz Co.  
**RUST RAIDER**, boiler and heating system cleaner, Radiant Spencymeyer Co.  
**RUSTRAYSE**, rust remover, Hachik Bleach Co.  
**S**  
**S.E.B.**, wetcleaning soap, E. F. Drew & Co., Inc.  
**S.M.A.**, high alumina firebrick, McLeod & Henry Co., Inc.  
**SOH**, low pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.  
**SP**, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.  
**SABIN**, glove cleaning machines, Sabin Machine Co.  
**SACO**, speed reducers, Stephens-Adamson Mfg. Co.  
**SACON**, belt conveyor carriers, Stephens-Adamson Mfg. Co.  
**SAFEGUARD**, safety cans, General Detroit Corp.  
**SAFE KUTTERS**, cord knife, Time Savers, Inc.  
**SAFE-TIE ANCHORS**, refractory anchors, Ramette Co., Div. S. Obermayer Co.  
**SAFE-T-SOL**, dry oil, paint and grease remover, Patek & Co.

**SAFETY**, diapers, Sani-Top Co.  
**SAFETY LINEN SOUR**, sour, Diamond Alkali Co.  
**SAF-T-AIR**, ventilator, United Electric Motor Co.  
**SAF-T-MARK**, marking tags, Stry-Lenkoff & Co.  
**SAGER SPREADERS**, flatwork spreaders, M. A. Pocock  
**SALBSET**, air-setting bonding mortar, A. P. Green Fine Brick Co.  
**SALVE-O-LIN**, skin salve, Keystone Aniline & Chemical Co., Inc.  
**SAMOSSET**, soap, Lewis National Corp.  
**SAMSON**, packing, U. S. Rubber Co.  
**SAMSONMITE**, filter bags, feather bags, extractor covers, soap whips, starch whips, tumbler pads, Manitowoc Cotton Goods Mfg. Co.  
**SANA-FILTER**, low pressure, filter-type soap, Huntington Laboratories, Inc.  
**SANA-SIZE**, sizing, Huntington Laboratories, Inc.  
**SANI-SOUR**, antiseptic, all-purpose sour, Standard Chemical Works Co.  
**SANITEX**, baskets, trucks, bags, C. R. Daniels, Inc.  
**SANTONE**, drycleaning process, Emery Industries, Inc.  
**SANITONE MC**, mothproofing, Emery Industries, Inc.  
**SANITONE SS**, silk size, Emery Industries, Inc.  
**SANITONE WR**, water repellent, Emery Industries, Inc.  
**SANI TOP**, diaper cans, diaper pails, deodorants, Sani-Top Co.  
**SANI-TYPE**, heat reclaimer, Patterson-Kelley Co., Inc.  
**SAPPHIRE**, stripper and stain remover, Lewis National Corp.  
**SARCO**, steam traps, temperature regulators, Sarco Co., Inc.  
**SARCOCIDE**, sour, Slater-Robbins Co., Inc.  
**SARCO-CONCENTRATE**, paint and grease remover, Slater-Robbins Co., Inc.  
**SARCO MIST**, moth spray, Slater-Robbins Co., Inc.  
**SARCO-SOL**, paint and grease remover, Slater-Robbins Co., Inc.  
**SARCO-TEX**, wetcleaning detergent, Slater-Robbins Co., Inc.  
**SATINETTE**, combination starch, Kever Starch Co.  
**SAVA-LOAD**, extractor covers, F. H. Bonn Co.  
**SAVO**, 92% powder soap, John T. Stanley Co., Inc.  
**SAVONOL**, wet spotter, Patek & Co.  
**SAXMAYER**, bundle tyers, National Bundle Tye Co.  
**SAYF**, mothproofing compound, Sayf Mothproofing Co.  
**SCALE-I-CATER**, boiler compound, W. F. Johnson Products Co.  
**SCHAUB**, boiler feed and condensation return system, Fred H. Schaub Engineering Co., Inc.  
**SCHRAMM**, air compressors, Schramm, Inc.  
**SCOTCH-MUND**, boilers, Mund Boilers, Inc.  
**SCOTSMAN**, washers, Ayr-Mor Machinery Co.  
**SCOTTALIE**, stoking grate, Marion Machine Foundry & Supply Co.  
**SCOTTIE, JR.**, high-pressure riveted boilers, Kewanee Boiler Corp.  
**SCOTREX**, textile scouring, Essential Chemicals Co.  
**SCRAM BLOOD**, spotting agent, Warco Laboratories  
**SEABUE**, blue, Spear Co.  
**SEA FOAM**, soap powder, Colgate-Palmolive-Peel Co.  
**SEALED POWER**, totally enclosed fan-cooled motor, Grocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works  
**SEAL MASTER**, ball bearings, Stephens-Adamson Mfg. Co.  
**SEAL-O-SAN**, enamel, Huntington Laboratories, Inc.  
**SEAL SILICATE**, silicate adhesive, Philadelphia Quartz Co.  
**SEALTITE**, liquid-tight electrical wiring conduit, American Brass Co., American Metal Hose Branch  
**SEAMLEX**, seamless flexible metal hose and tubing, Seamlux Co., Inc.  
**S.E.B. CONCENTRATED**, silk and wool soap, E. F. Drew & Co., Inc.  
**SEC**, synthetic drycleaning unit, Sec-o-Matic  
**SEC-CLEANED**, drycleaning process, Sec-o-Matic Corp.  
**SECCO**, dry water repellent, Patek & Co.  
**SEC-O-MATIC**, synthetic solvent drycleaning unit, Sec Cleaning Systems  
**SECTOFUG**, moth protection by fogging, Fulmor Corp.  
**SECURITY A-I**, lusterizing formula, fur glaze aerosol type, Security Fur Seal Co., Inc.  
**SECURITY**, marking pins, Rudson Mfg. Co.  
**SEELAPEN**, plastic storage and blanket bags, Mehl Mfg. Co.  
**ELECTRIC**, water heaters, Crane Co.  
**SELF-SEAL**, adhesive shirt bands, National Self-Seal Band Co.  
**SELF-STICK**, shirt bands, Phoenix Products Co.  
**SELLERS**, steam boilers, open return systems, Sellers Engineering Co.  
**SELLERS**, wetting agents, Jacques Wolf & Co.  
**SEMI-STOD**, cleaners, light naphtha, Anderson-Friedrich Oil Corp.  
**SENECA**, soap, Lewis National Corp.  
**SENTECHROL**, relay, Weston Electrical Instrument Corp.  
**SENTINEL**, oil cup, Lunkenheimer Co.  
**SEPTO SOUR**, sour, Diamond Alkali Co.

**SERVIS RECORDER**, time and truck recorders, Service Recorder Co.  
**SESQUILATE**, laundry detergent, Diamond Alkali Co.  
**1707**, bins, H. Kohnstamm & Co., Inc.  
**SHAMROCK**, canvas baskets, hampers, trucks, Meese, Inc.  
**SHAW**, collar edger, Reed Mfg. Co.  
**SHEN-TEX**, synthetic rug cleaning soap, Blenco Co.  
**SHELBY**, tubing, National Tube Co.  
**SHELL**, naphtha, stain remover, Shell Oil Co., Inc.  
**SHELL-LESS**, washers, U. S. Hoffman Machinery Corp.  
**SHELL-SOL**, naphtha, petroleum solvent, Shell Oil Co., Inc.  
**SHELL TOX**, insecticide, Shell Oil Co., Inc.  
**SHIELDS**, drycleaning unit, Shields Engineering & Mfg. Co.  
**SHINE BRIGHT**, liquid scrubbing soap, Hild Floor Machine Co.  
**SHIPSARE**, bags, Lanning Bag & Specialty Co.  
**SHIRLAN**, textile fungicides, E. I. du Pont de Nemours & Co., Inc.  
**SHIRT BIN**, for conveying shirts, J. W. Steele & Co.  
**SHIRT CHUTE**, metal chute for shirt handling, Huntington Mfg. Co.  
**SHIRT PAX**, shirt bag, Time Savers, Inc.  
**SHIRTRANSPORT**, shirt transporter, U. H. Bishop Co.  
**SHIRT TRUX**, steel shirt bins, Time Savers, Inc.  
**SHOWERFEED**, floor, rug and carpet scrubbing machines, Hild Floor Machine Co.  
**SHOWER-PRUF**, water repellent, Adco, Inc.  
**SHEDDED**, 55% flake soap, John T. Stanley Co., Inc.  
**SIBUR**, mothproofing agent, Sibur Mothproofing Co., Inc.  
**SIDE AISLE**, truck bodies, Montpelier Mfg. Co.  
**SIERRING**, electromagnetic steam boiler, Siebring Mfg. Co.  
**SIGNAL**, flameproof, insecticide, Signal Chemical Mfg. Co.  
**SIGNS OF SUCCESS**, displays, posters, signs, Signs of Success  
**SILENT HUNTINGTON**, scrubbing and polishing floor machine, Huntington Laboratories, Inc.  
**SILENT SERF**, portable vacuum cleaner, Certified Chemical & Equipment Co.  
**SIL-EX**, black metal washer, Gross Machinery Co., Inc.  
**SILKANWOOL**, silk and woolen soap, North Coast Chemical & Soap Works  
**SILKLEEN**, spotting agent, Silkleen Mfg. Co.  
**SILTEX FLAKES**, medium titer soap, Allen B. Wrisley Co.  
**SILVER-CREST**, washers, U. S. Hoffman Machinery Corp.  
**SILVER-KOTE**, lacquer, Pittsburgh Waterproof Co.  
**SILVER LEAF**, nets, Southern Mills, Inc.  
**SILVERLINK**, roller chains, sprockets, Link-Belt Co.  
**SILVERSEAL**, colored specialty tapes, Gummed Tape & Devices Co.  
**SILVERSTREAK**, silent chain drives, Link-Belt Co.  
**SILVERTEEN**, wire hangers, Academy Hanger Co., Inc.  
**SILVERTINE**, straight and safety pins, Valli Mfg. Co.  
**SILVERTOP**, steam trap, V. D. Anderson Co.  
**SIMMONS**, cuff and tag tacking machines, Simmons Machine Co.  
**SIMMONS ELECTRO-MEND**, mending and patching machines, Simmons Machine Co.  
**VIMPLEX**, break powder, H. Kohnstamm & Co., Inc.  
**VIMPLEX**, laundry tumblers, extractors and washers, flatwork ironers, drycleaning tumblers, Ironer Div., Speed Queen Corp.  
**VIMPLEX**, oil burners, Simplex Oil Heating Corp.  
**SINGER**, sewing machines, accessories, Singer Sewing Machine Co.  
**SIRCO**, tropical nut shells for fur cleaning, Bernard Sirota Co.  
**SIRCO FUME**, liquid fumigating gas, Bernard Sirota Co.  
**6-A**, automatic synthetic drycleaning unit, Prosperity Co., Inc.  
**6-T**, benzene soap, Midland Color & Chemical Co.  
**630**, drycleaning soaps, Caled Products Co., Inc.  
**60 SECOND**, solvent, Superior Products Co.  
**SIZZ**, water-soluble size finish, Davies-Young Soap Co.  
**SIZE-ALL**, liquid sizing, Keystone Aniline & Chemical Co., Inc.  
**SIZE-ALL**, permanent sizing, Benda Products, Inc.  
**SIZEOFF**, enzyme desizing agent, Takamine Laboratory, Inc.  
**SIZ-IN**, hat sizing, Greenville Chemical Co.  
**SKELLYSOLVE**, petroleum solvents, Skelly Oil Co.  
**SKORTEX**, wetcleaning compound, Wyandotte Chemicals Corp.  
**SKY ROCKET**, extractors, Hammond Laundry-Cleaning Machinery Co.  
**SKYTINT**, liquid laundry blue, Kliegman Bros., Inc.  
**SLACKS SAKS**, trouser bags, Phoenix Products Co.  
**SLICKER**, brushes, American Pressboard Co., Inc.  
**SLIP EASY BRAND**, motor oil, boiler and roofing materials, Riverside Chemical Co., Inc.  
**SLIP-IN**, collar protectors, Phoenix Products Co.



**SLIP-NOT**, special tanned leather belting, Milwaukee Leather Belting Co.  
**SLIP-ON**, hanger shields, Academy Paper Box Co.  
**SLIP-ON**, hanger shields, Larton Products Co., Inc.  
**SLYDE-OUT**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.  
**SMASH**, break powder, Minnesota Chemical Co.  
**SMITH-DRUM**, laundry machinery, Smith-Drum Co.  
**SMITH'S**, collar, cuff and neckband replacements, Gilman B. Smith Co., Inc.  
**SMOOTH-TEX**, press cloth, feed ribbons, Pittsburgh Waterproof Co.  
**SNA-PON**, trouser guards, Tillery Container Co.  
**SNAP-TITE**, cover-cloth clamp, J. W. Steele & Co.  
**SNOWFLAKE CRYSTALS**, sodium sesquicarbonate, Solvay Sales Div., Allied Chemical & Dye Corp.  
**SOAP-O-MATIC**, soap dispenser, Hopkins Equipment Co.  
**SOFFTEE**, pressure and vacuum filters, Hammond Laundry-Cleaning Machinery Co.  
**SOFTIEY**, diapers, Sani-Top.  
**SOILSORB**, rug and overall detergent, Cowles Chemical Co.  
**SO-KLEEN PENETRANT**, drycleaning detergent, Merson Products Co.  
**SO KLEEN SY.**, synthetic drycleaning soap, Merson Products Co.  
**SOLAD**, drycleaning soap, Murphy Sales Co.  
**SOLARINSE**, optical whitener, Carlton Chemical Co., Inc.  
**SOLARSUDS**, detergent, Carlton Chemical Co., Inc.  
**SOL-BLUE**, blue, Speare Co.  
**SOL BREAK**, break powder, Lewis National Corp.  
**SOLBUEN**, spotting agent, Eaton Chemical & Dyestuff Co.  
**SOL-CLAR**, filter powder, Murphy Sales Co.  
**SOLCON**, paint remover, Lewis National Corp.  
**SOLID CURE**, laundry, drycleaning extractors, American Laundry Machinery Co.  
**SOLIVE**, soaps, Lewis National Corp.  
**SOLIT-AYR**, washers, tumblers, extractors, Ayr-Mor Machinery Co.  
**SOLLOZONE**, sodium peroxide, E. I. du Pont de Nemours & Co., Inc.  
**SOL-SIL-ATE**, alkali soap builder, Lewis National Corp.  
**SOL-SIL-ATE**, special alkali compounds, Speare Co.  
**SOL SOUR**, sour, Lewis National Corp.  
**SOL SUDS**, soap, Lewis National Corp.  
**SOLTEX**, drycleaning detergent, Riverside Mfg. Co.  
**SOLUBLE FINE OILS 189**, penetrant, Jacques Wolf & Co.  
**SOLUBON**, textile dyeing assistants, American Aniline Products, Inc.  
**SOL-U-LUBE**, neutral lubricant, Huntington Laboratories, Inc.  
**SOL-U-NESE**, dry and wet spotter, Huntington Laboratories, Inc.  
**SOL-U-SOAP**, drycleaning soap, Huntington Laboratories, Inc.  
**SOLVATONE**, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.  
**SOLVENT-STILL**, distills synthetic solvents, Dretex Corp.  
**SOLVEX**, spotting agent, Spix Products Co.  
**SOLVINK**, ink, paint, rust, blood stain remover, Greenville Chemical Co.  
**SOLVINOL**, spotting soap, Keystone Aniline & Chemical Co., Inc.  
**SOLVO-MISER**, solvent recovery unit, Hoyt Mfg. Corp.  
**SOL-VO-RUST**, sour, Thompson-Hayward Chemical Co.  
**SOLZYME**, digestive agent, Lewis National Corp.  
**SONOMOR**, safety and straight pins, wire garment hangers, Wm. Frym, Inc.  
**SOURFLO**, laundry sour, Wyandotte Chemicals Corp.  
**SOURTEC**, sour, Wyandotte Chemicals Corp.  
**SOUTHDOWN**, diapers, George Wood, Sons & Co.  
**SOUTHEASTERN**, laundry textiles, Southeastern Textile Co.  
**SOUTHERN COLONEL**, sponge press pads, Southern Mills, Inc.  
**SOVASOL 5**, Stoddard petroleum solvent, Socomeo-Vacuum Oil Co., Inc.  
**SOVASOL 140**, petroleum safety solvent, Socomeo-Vacuum Oil Co., Inc.  
**SPACEMASTER**, stacker, Lewis-Shepard Products, Inc.  
**SPAN**, emulsifier, wetting agent, Atlas Powder Co., Industrial Chemicals Dept.  
**SPARCO PASTE SOAP**, coconut oil soap, West Side Corp.  
**SPARKETTE**, detergent, Pennsylvania Salt Mfg. Co.  
**SPARKLEAN**, drycleaning detergent, Cidec Corp.  
**SPARKLES**, liquid coconut oil soap, West Side Corp.  
**SPARKOLOR**, detergent emulsifier, Cidec Corp.  
**SPARKS**, rubber pedal pad for drycleaning presses, Sparks Pad Co.  
**SPARTAN**, flat and block leather V belt, leather packings, Graton & Knight Co.  
**SPARTAN**, nets, Egan Cotton Mills  
**SPEARE'S**, blue, Lewis National Corp.  
**SPECIAL FINISH**, starch, A. E. Staley Mfg. Co.

**SPECIAL IRONER OIL**, cleans, polishes and lubricates flatwork ironers, College Chemical Co.  
**SPECIAL SUPER RAMTITE 25**, plastic restorator, Ramtite Co., Div. S. Obermayer Co.  
**SPECIALTY**, garment bagger, Specialty Devices Co.  
**SPEED**, brass fasteners, erasing shields, Speed Products Co., Inc.  
**SPEED-SAGGER**, bagging device, Para-Lux Products Co.  
**SPEEDEE**, drying cabinets, Hammond Laundry-Cleaning Machinery Co.  
**SPEED-EE**, paint and grease remover, Adco, Inc.  
**SPEEDEX**, extractor, Zephyr Laundry Machinery Co.  
**SPEEDISETS**, sales and record forms, Moore Business Forms, Inc.  
**SPEED KING**, tumblers, Hammond Laundry-Cleaning Machinery Co.  
**SPEEDLIFT**, trucks, Lewis-Shepard Products, Inc.  
**SPEEDMASTER**, rug scrubber, Certified Chemical & Equipment Co.  
**SPEEDMASTER**, stackers and portable elevators, Lewis-Shepard Products, Inc.  
**SPEEDMATIC**, compression tacker, Speed Products Co., Inc.  
**SPEEDPLS**, filter powder, Dicalite Div., Great Lakes Carbon Corp.  
**SPEED SET**, variable numbering machines, American Numbering Machine Co.  
**SPEED-S-IT**, prespotter, G & G Chemical Co.  
**SPEEDSTER**, extractor, washers, Prosperity Co., Inc.  
**SPEEDUX DIPMASTER**, water-repellent dip tanks, Devore Co.  
**SPEEDWAY**, drycleaning, laundry and rug washers, A. A. Laundry Machinery Co.  
**SPEEDWAY**, pressboard covers, folders, Speed Products Co., Inc.  
**SPEEDWAY**, washers, tumblers, Industrial Laundry Machinery Co., Inc.  
**SPHINK**, starch, Arabol Mfg. Co.  
**SPIRO**, injection type water heaters, David Stout & Sons  
**SPIX**, prespotter, drycleaning and suede soap, hand cream, Spix Products Co.  
**SPORTRIGHT**, sport shirt folding board, Key-Tek Clothing System Co.  
**SPORT SHIRT**, press unit, American Laundry Machinery Co.  
**SPORTSTER**, shirt folder, Time Savers, Inc.  
**SPOTLESS**, paste drycleaning soap, National Cleaners Chemical Co.  
**SPOTLESS CHLOROFORM**, substitute for chloroform, Slater-Robins Co., Inc.  
**SPOTLESS SIZE**, synthetic sizing, Slater-Robins Co., Inc.  
**SPOTOUT**, spotting aids, Kennedy Products Co., Inc.  
**SPOTRIGHT**, spotting agent, Allen & Vickers, Inc.  
**SPOT-X**, prespotter, Huntington Laboratories, Inc.  
**SPRAY DREST**, leather finishes, Caied Products Co.  
**SPRAY-MASTER**, spray gun, Cleaners Specialties Supplies Co.  
**SPRAY MIX**, coating refractory, Mexico Refractories Co.  
**SPUNYLON**, nylon net, Carson Textile Co., Inc.  
**SPURT**, blood remover, Patek & Co.  
**SQUARE-HEAT**, steel boiler, coal, oil, gas stoves, Kewanee Boiler Corp.  
**SQUAREWAY**, curtain and blanket stretchers, Hopkins Equipment Co.  
**SQUIRES**, reducing and regulating valves, C. E. Squire Co.  
**SS COMPOUND**, washing compounds, Lewis National Corp.  
**STABLON**, textile dyeing assistants, American Aniline Products, Inc.  
**STACK-EM**, hanger rack, Time Savers, Inc.  
**STACKRITE**, flatwork stacker, American Laundry Machinery Co.  
**STADLUBE**, starch lubricant, Stadham Co., Inc.  
**STAD-SPUN**, spun treated nylon cloth, Stadham Co., Inc.  
**STAD-TEX**, treated nylon cloth, Stadham Co., Inc.  
**STADWAX**, ironer oil, powdered wax, Stadham Co., Inc.  
**STAG BRAND**, press covers, aprons, bags, feed ribbons, Pittsburgh Waterproof Co.  
**STAGG**, spotting aids, G & G Chemical Co.  
**STAIN-A-WAY**, oxidized-stain remover, Warco Laboratories  
**STAINEX**, laundry sour, Standard Chemical Works Co.  
**STAINPRUF**, aqueous type water repellent, Atlantic Stainproof Co.  
**STAINPRUF-DC**, solvent type water repellent, Atlantic Stainproof Co.  
**STAINPRUF-FLG**, fur glazing compound, Atlantic Stainproof Co.  
**STAIN**, collar supports, Time Savers, Inc.  
**STAMPAGRAPH**, indelible hot iron transfers, Stampagraph Co., Inc.  
**STAMPATCH**, cloth mender, StampPatch Magic Co.  
**STANCO**, blues, soaps, Standard Chemical Works Co.  
**STANDARD**, laundry, drycleaning machinery, Standard Laundry & Cleaning Machinery Co.  
**STANDARD**, pin carrier, Keyes-Davis Co.  
**STANDARD**, press pads, Resillo Co.  
**STANDARD**, record system, Standard Register Co.  
**STANDARD**, shirt unit, Prosperity Co., Inc.  
**STANDARD**, valves, W. M. Chace Co.

**STANDARD FLAKE SOAP**, NO. 1, soap, Standard Soap Co. of Camden  
**STANDARD KING**, net pins, Keyes-Davis Co.  
**STANDCO**, speed indicators, tachometers, Herman H. Sticht Co., Inc.  
**STAND-EZE**, floor mat, Colonial Rubber Co.  
**STANORUST**, rust preventative, Standard Oil Co.  
**STANOX**, hot-water built soap, John T. Stanley Co., Inc.  
**STANSO**, cleaning chemicals, detergents, Standard Soap Co. of Camden  
**STANSO TEX OIL**, sulphonated oils, Stanley red oil, Standard Soap Co. of Camden  
**STANTEK**, press and cover cloth, John T. Stanley Co., Inc.  
**STA-NU**, garment revitalizer with sizing action, Sta-Nu Corp.  
**STAPEX**, starch, A. E. Staley Mfg. Co.  
**STAPLE TAG-A-DAY**, laundry marking tags, Boston Clip & Tag Co.  
**STAPL-TITE**, marking tags, Liberty Marking Tag Co., Inc.  
**STA-FUT**, lubricating oils, greases, E. F. Houghton & Co.  
**STAR**, globe, angle, check valves, Kunkle Valve & Co.  
**STARCHEX**, starch lubricant, Lewis National Corp.  
**STAR DOWN**, diapers, George Wood, Sons & Co.  
**STA-RITE**, collar supports, shoulder shields, trouser guards, tie holders, industrial aprons, Hodge, Farwell & Co.  
**STARR-BRITE**, wetcleaning soap, Starr Soap & Chemical Co.  
**STARR-201**, drycleaning soap, Starr Soap & Chemical Co.  
**STAR SERVICE**, wire hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.  
**STARTEX**, break compound, H. Kohnstamm & Co., Inc.  
**STATCOL**, drycleaning soap, R. R. Street & Co., Inc.  
**STAZUP**, collar supports, Alfred J. Brooks  
**STEAM-AIRE**, garment finishers, Pantex Mfg. Co.  
**STEAMMAIRE**, unit heater, Union Radiator Co.  
**STEAMMASTER**, boilers, return systems, Steamaster Automatic Boiler Co.  
**STEAM BOILER PLANT**, boilers, Eclipse Fuel Engineering Co.  
**STEAM-FLEX**, press connectors, Chicago Metal Hose Corp.  
**STEAM FLOW**, rubber press pad, Newhouse Co.  
**STEAMIN STEVE**, portable electric steam generator, Electric Steam Boiler Sales, Div. Wolf Co.  
**STEAM-PAK**, packaged steam generators, York-Shipley, Inc.  
**STEAMTITE**, flexible metal connector for laundry and pressing machines, American Brass Co., American Metal Hose Branch  
**STEEL-BILT**, extractors, washers, B & G Machinery Co., Inc.  
**STEELCOTE**, paint, varnishes, waterproofing, Steelcote Mfg. Co.  
**STEELE BIN**, shirt carrier, J. W. Steele & Co.  
**STEELE GLIDER IRON**, electric iron, J. W. Steele & Co.  
**STEELELOK**, self-locking shirt band, J. W. Steele & Co.  
**STEEL-FORGED**, casters, Rapids-Standard Co., Inc.  
**STEEM**, neutral lubricant for steam spotting, Caied Products Co., Inc.  
**STEIGLER MARKOGRAPH**, marking machine, George Steigler Co.  
**STEIN**, add-a-section finishers' tables, Lawrence M. Stein Co.  
**STEIN**, cuff tacker, Stein Specialty Co.  
**STEINER**, paper towels, soaps dispensers, toilet soap, Steiner Sales Co.  
**STELLAR**, filter, Inflico, Inc.  
**STERI-CHLOR**, deodorizer and germicide, Wyandotte Chemicals Corp.  
**STERICLEAN**, laundry sour, Johnson Chemical Industries, Inc.  
**STERLCO**, pumps, traps, controls, regulators, Sterling, Inc.  
**STERLING**, corn starch, Keefer Starch Co.  
**STERLING**, pumps, boiler, Sterling Engineering & Mfg. Co.  
**STERLING**, salt, salt tablets, dispensers, International Salt Co.  
**STEVEDORE, JR.**, conveyor, Rapids-Standard Co., Inc.  
**STEVENSON**, automatic counting machine, Stevenson Co.  
**STEWART-WARNER**, instruments, Stewart-Warner Corp., Alemite Corp.  
**STIK-TITE**, belt cement, Milwaukee Leather Belting Co.  
**STILLSON-GENUINE**, wrench, Walworth Co.  
**STOD-SOL**, Stoddard solvent, Anderson-Prichard Oil Corp.  
**STONEWALL**, fans, Stonewall Sales Co.  
**STORAGE MASTER**, fur and woolen storage, Walter Haertel Co.  
**STOVER**, water softeners, pressure filters, Stover Water Softener Co.  
**STRATE**, special drycleaning detergent, Spix Products Co.  
**STREAMLINE**, chest type flatwork ironer, American Laundry Machinery Co.  
**STREAMLINED LABELORS**, moistening machine, Better Packages, Inc.  
**STREEPENE**, stripper, R. R. Street & Co., Inc.  
**STREETEX**, drycleaning soap for chlorinated solvents, R. R. Street & Co., Inc.

- STRESSITE**, solid bronze machine parts, Amplex Div., Chrysler Corp.
- STRIPALINE-O**, stripper, Keystone Aniline & Chemical Co., Inc.
- STRIPLEX**, strippers, Package Chemical Co., Inc.
- STRIP INK**, ink remover, Slater-Robbins Co., Inc.
- STRIP-IT**, powdered stripper, Ken Laboratories
- STRIP-KLEEN**, liquid stripper, Ken Laboratories
- STRIPP**, powdered stripper and bleach, G & G Chemical Co.
- STRIPPET**, strippers, Package Chemical Co., Inc.
- STRIPPIT**, stain remover, stripper, Kliegman Bros., Inc.
- STRIPPOLYTE**, dye remover, Slater-Robbins Co., Inc.
- STRIP-STICK**, stripper, National Cleaners Chemical Mfg. Co.
- STRIPTEX**, powdered stripper, Hood Chemical Co., Inc.
- STROMBERG**, time clocks, Stromberg Time Corp.
- STRONG**, steam specialties, Strong, Carlisle & Hammond Co.
- STURD-BILT**, metal laundry washer, Jensen Mfg. Co.
- STYLOGRAMS**, simulated paper handkerchief printed with sales message, Nashua Gummed & Coated Paper Co.
- SUBALOX**, lead and aluminum glimmer paint, Subox, Inc.
- SUBMERSON**, horizontal gas-fired boilers, horizontal gas-fired water heaters, David Stout & Sons
- SUBOX**, anti-corrosive paint, Subox, Inc.
- SUDS**, paste dyeing soap, Adco, Inc.
- SUDSO**, soap builder, Washine National Sands, Inc.
- SUDSYN**, sudsy synthetic solvent, E. F. Drew & Co., Inc.
- SUEDECARE**, leather cleaning process, Suedecare, Inc.
- SUITANDRESS**, hangers, Cleaners Hanger Co.
- SULFACO**, wetcleaner, R. R. Street & Co., Inc.
- SULFOSUDS**, soapless soap, Merson Products Co.
- SULFSTAD**, soap, Stadham Co., Inc.
- SULPHOGEN**, spotting compound, Riverside Mfg. Co.
- SULPHOTEX**, detergent, soaps, Keystone Aniline & Chemical Co., Inc.
- SULUBOL**, detergent, Apex Chemical Co., Inc.
- SULVA**, soapless wet cleaner, G & G Chemical Co.
- SUN**, paste filter soap, Adco, Inc.
- SUNBEAM**, automatic clothes-lifting basket liner, Cleaners Specialties Supplies Co.
- SUNBEAM**, blue, Spare Co.
- SUN FLOURESCENT**, lighting fixtures, Sun Fluorescent Electric Co.
- SUN-PROOF**, paint, Pittsburgh Plate Glass Co., Paint Div.
- SUNSHINE**, tie-forms, Sunshine Necktie Forms
- SUPER**, laundry machinery, Super Laundry Machinery Co., Div. St. Joe Machines Inc.
- SUPERBELT**, leather belting, Philadelphia Belting Co.
- SUPERBILD**, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.
- SUPERCHLOR**, bleach, Patterson Laboratories, Inc.
- SUPER-CLEAR**, rust-removing sour, Johnson Chemical Industries, Inc.
- SUPER DETERGENT**, detergent type dyeing soap, National Cleaners Chemical Mfg. Co.
- SUPER DRY-O-MATIC**, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- SUPER-ELCONITE**, high-capacity greensand zeolite, Elgin Softener Corp.
- SUPEREX**, sheet block and pipe insulations, Johns-Manville
- SUPERFINE**, laundry starch, Washine National Sands, Inc.
- SUPER FUMEPROOF**, interior enamel, A. C. Horn Co., Inc.
- SUPERGAUGE**, gauges, U. S. Gauge Div., American Machine & Metals, Inc.
- SUPER HIDING**, interior white, U. S. Gutta Percha Paint Co.
- SUPER ILLUMINATORS**, incandescent lighting equipment, Edwin F. Guth Co.
- SUPERIOR**, blue, sour, Superior Products Co.
- SUPERIOR**, crush-proof sorting hoods, V & W Equipment Co.
- SUPERIOR**, marking machines, Textile Machinery Co., Inc.
- SUPERIOR**, rubber-tired wheels and casters, Jarvis & Jarvis, Inc.
- SUPERIOR**, steam generators, Superior Combustion Industries, Inc.
- SUPERKLEEN**, laundry alkali, Washine National Sands, Inc.
- SUPER-MATIC**, boilers, Eclipse Fuel Engineering Co.
- SUPER MERCURY**, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- SUPER MULTIFLEX**, calcium carbonate, Diamond Alkali Co.
- SUPER OILITE**, ferrous-base lubricating bearings, Amplex Div., Chrysler Corp.
- SUPERPACKING**, leather packings, Philadelphia Belting Co.
- SUPER-PLASTIC**, refractory materials, A. P. Green Fire Brick Co.
- SUPER FURGO**, soap builder, Minnesota Chemical Co.
- SUPER RAMITE 23**, plastic refractory, Ramite Co., Div. S. C. Chermayer Co.
- SUPER SERVICE**, press and ironer pads and padding, Progressive Textile Mfg. Co.
- SUPER-SILICATE**, detergent, Diamond Alkali Co.
- SUPER SILVERTOP**, steam traps, strainers, traps, H. D. Anderson Co.
- SUPER-SOL**, prespotter, National Cleaners Chemical Mfg. Co.
- SUPER-SPEED**, drycleaning tumbler, American Laundry Machinery Co.
- SUPER STEEL**, pins, safety pins, William Prym, Inc.
- SUPER SYLON**, ironer, American Laundry Machinery Co.
- SUPER-TEX**, detergent, Nu-Pro Mfg. Co.
- SUPER-VAC**, rug cleaning suction machine, American Laundry Machinery Co.
- SUPER-WEAR**, press covers, Gustin-Kramer Co.
- SUPER X**, break powder, Spare Co.
- SUPER-ZARMO**, air-driven laundry presses, American Laundry Machinery Co.
- SUPER-ZARMOETTE**, air-driven laundry presses, American Laundry Machinery Co.
- SUPER-ZORIC**, drycleaning unit, American Laundry Machinery Co.
- SUPREME**, laundry starch, Clinton Foods, Inc.
- SURE-FLUO**, ironer wash, Johnson Chemical Industries, Inc.
- SURE-HOLD**, paper specialties, wrappers, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
- SURELOC**, aluminum collar and cuff fasteners, collar buttons, Sureloc Paper Clip Co.
- SURE-RETURN**, condensation pumps, Chicago Pump Co.
- SURE-RINSE**, diaper sour, Johnson Chemical Industries, Inc.
- SURE-ADYNE**, textile leveler, Essential Chemicals Co.
- SURFALUX**, resin emulsion paint, Vita-Var Corp.
- SURFAX**, wetting agent, E. F. Houghton & Co.
- SURFEX**, calcium carbonate, Diamond Alkali Co.
- SURFEX MM**, calcium carbonate, Diamond Alkali Co.
- SUSPENSO**, calcium carbonate, Diamond Alkali Co.
- SUSSMAN**, steam iron, Automatic Steam Products Corp.
- SUZIE**, garment finisher and fabric conditioner, Enclave Machinery Co.
- SWAN**, valves, Klipfel Mfg. Co.
- SWANEE**, cover duck, Minnesota Chemical Co.
- SWANSDOWN**, calcium carbonate, Diamond Alkali Co.
- SWATCH WAY**, spotting course, Delray School of Spotting Instruction
- SWIFT**, soaps, Swift's Technical Laundry Service Division
- SWINGLINE**, staples, staplers, Speed Products Co., Inc.
- SWIVELoader**, box car loaders, Stephens-Adamson Mfg. Co.
- SWIV-O-HOOK**, hangers, Garment Hanger Co.
- SYLON**, chest type flatwork ironer, American Laundry Machinery Co.
- SYLVANIA**, cellophane, Sylvania Div., American Viscose Corp.
- SYNASOL**, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- SYNCHIRO-VALVE**, diaphragm control valve, Bristol Co.
- SYNDEET**, insecticide, U. S. Rubber Co.
- SYNDET**, synthetic detergent, West Side Corp.
- SYN-FLEX**, outside and interior enamel, Midland Paint & Varnish Co.
- SYNTERGE**, drycleaning soap for chlorinated solvents, Bayerchem Products Co.
- SYNSUDS**, soap, H. Kohnstamm & Co., Inc.
- SYNSUDS**, synthetic soap powder, Trico Chemical Div., Tri-State Equipment Co.
- SYNTHETIC**, liquid filter soap, National Cleaners Chemical Mfg. Co.
- SYNTHESOL-100**, drycleaning soap for synthetic solvent, Fetek & Co.
- SYNTHITE**, zeolite, Hungerford & Terry, Inc.
- SYNTHO**, soap for chlorinated solvents, National Cleaners Chemical Mfg. Co.
- SYNTH-O-SAVER**, solvent recovery unit, Detres Corp.
- SYNTHOSOL**, neutral wet spotting agent, Allen & Vickers, Inc.
- SYNTHO SUDS**, synthetic soap powder, West Side Corp.
- SY FENETRANT**, drycleaning detergent, Merson Products Co.
- TDL**, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- T.S.R.**, stain remover, Package Chemical Co., Inc.
- TACASO**, laundry heaters, Kewanee Boiler Corp.
- TACO**, heaters, condensers, hot water systems, Taco Heaters, Inc.
- TAD**, insecticides, deodorants, Tad Chemical Co., Div. Acme Industrial Compounds Corp.
- TAD**, tags, Boston Clip & Tag Co.
- TAG**, recording instruments, all types, C. J. Tagliabue Div., Portable Products Corp.
- TAG-O-DAY**, laundry marking tags and pins, Boston Clip & Tag Co.
- TAGGER**, sewing machine for tagging, Chandler Machine Co.
- TAG-O-MATIC**, tag making and marking machine, Textile Marking Machine Co., Inc.
- TAHOE**, laundry blue, Fetek & Co.
- TAKALAB**, concentrated enzymic digestant, Takamine Laboratory, Inc.
- TA-KARA-HUKS**, drycleaning specialty for cleaning drapes with hooks attached, Take-Care Mfg. & Sales Co.
- TAKIMERSE**, enzymic digestant for bath, Takamine Laboratory, Inc.
- TALASE**, desizing agent, Takamine Laboratory, Inc.
- TALLEY**, belt and motor driven wooden washers, Talley Laundry Machinery Co.
- TALLY**, hand counter, Denominator Co., Inc.
- TAN-AN-INK**, ink remover, Package Chemical Co., Inc.
- TANSOL**, tannin stain remover, Greenville Chemical Co.
- TAN-X**, semi-wet stain remover, National Cleaners Chemical Mfg. Co.
- TARBONIS**, protective skin cream, Tarbonis Co.
- TARGO**, tar remover, A. L. Wilson Chemical Co.
- TASCO**, alkali (soap builder), Lewis National Corp.
- TASCO TINT**, blue, Lewis National Corp.
- TAYLOR**, stokers, American Engineering Co.
- TEJAX**, valve indicator, Tejax Engineering Corp.
- TELEFLEX**, overhead rotary conveyor, Teleflex, Inc.
- TELL BOARD**, bulletin board, Mine Safety Appliances Co.
- TELLEVEL**, bin level control switches, Stephens-Adamson Mfg. Co.
- TEL-U-VISION**, transparent garment bags, Mehl Mfg. Co.
- TEMPLETON**, steam traps, Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
- 10 & 20**, shirt bins, Time Savers, Inc.
- TEN-MUNT**, bleach, Warco Laboratories
- TEN 32**, laundry and drycleaning chemicals and detergents, Roberts-Modaber Co.
- TERGESSOL**, paint and grease remover, Slater-Robbins Co., Inc.
- TERGIT**, spotting compound, Riverside Mfg. Co.
- TERGITOL**, wetting agent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- TER-TEX**, drycleaning concentrate, Spix Products Co.
- TETRA-CLANE**, synthetic drycleaning unit, Ayr-Mor Machinery Co.
- TETRA-NOVAL**, wetcleaning soap, Keystone Aniline & Chemical Co., Inc.
- TETRAPOL**, spot washing, tar removal, General Dyestuff Corp.
- TETRA-SAN**, liquid detergent, Huntington Laboratories, Inc.
- TEX-ALL**, rug cleaner, Certified Chemical & Equipment Co.
- TEXANA**, laundry soap, Texas Soap Mfg. Corp.
- TEX-IT**, upholstery cleaner, Certified Chemical & Equipment Co.
- TEXTITE**, industrial detergent, H. Kohnstamm & Co., Inc.
- TEXIZE**, sizing preparation, Package Chemical Co., Inc.
- TEXO**, laundry soap, E. F. Drew & Co., Inc.
- TEXSCOUR**, low-titer neutral red oil soap flakes, Armour & Co.
- TEXSOL**, drycleaning detergent, Riverside Mfg. Co.
- TEXTAG**, lot system of production control, Carman & Co., Inc.
- TEXTICIDE M**, aqueous type fungicide, Atlantic Stainproof Co., Inc.
- TEXTICIDE MC**, solvent type fungicide, Atlantic Stainproof Co., Inc.
- TEXTO**, glazed thread, Fleischer Mills, Inc.
- TEXTURE-SAN**, fabric conditioner, Huntington Laboratories, Inc.
- TEXZYME**, protein removing desizing agent, Publ Sales Co., Inc.
- THERMO-HUMIDIGRAPH**, combination temperature and humidity recorder, Bristol Co.
- THERMOTEX**, cover cloth, H. Kohnstamm & Co., Inc.
- THERMOTEX "S"**, heat-resistant cover cloth, H. Kohnstamm & Co., Inc.
- THERMO-VENTO**, drying tumbler, American Laundry Machinery Co.
- T-32**, gunkster, Arrow Fastener Co.
- THORI**, intermediate quality, stiff mud firebrick, Mexico Refractories Co.
- THORAL**, rug shampoo, Turco Products, Inc.
- THO-RO**, pearl buttons, Tho-Ro Products, Inc.
- 3B**, automatic synthetic drycleaning unit, Prosperity Co., Inc.
- 3-B DYNAMITE**, soap, Rome Soap Mfg. Co.
- 302 3C**, cover cloths, Whitehouse Products, Inc.
- 3-STAR**, leather and waterproof leather belting, Charlotte Leather Belting Co.
- THREE STAR**, pads, padding puff iron sets, Baltimore Specialties Co.
- 328**, ironer oil, John P. Lynch Co.
- THRIFTEX**, drycleaning soap, detergent and emulsifier, Pennsylvania Salt Mfg. Co.
- THRIFTIES**, collar supports, M. H. Gronauer Co.
- THURSTEND**, drinking fountains, Crane Co.
- TI-BAG**, cover for Ti-Bak, Para-Lux Products Co.
- TIBRODE**, cotton flannel padding and nets, Tingue, Brown & Co.
- TICKETAT**, drycleaning identification system, Ticke-Tar Co.
- TICOTHERM**, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- TIE-PAK**, tie racks and bags, Phoenix Products Co.
- TIGER**, paste type detergent, Adco, Inc.
- TILTOR**, shirt unit and shirt presses, American Laundry Machinery Co.

**TIME-O-MATIC**, timers for extractors, Rosenthal Mfg. Co.

**TIME SAVERS**, garment racks, trouser guards, shirt envelopes, Time Savers, Inc.

**TI-ME-TEE**, laundry equipment timer, Bidwell Mfrs.

**TIMKEN**, roller bearing, tubings, Timken Roller Bearing Co.

**TINDECK**, double-face padding, Tingle, Brown & Co.

**TI-NI-TER**, indicating timer, Bidwell Mfrs.

**TI-RAR**, necktie hanger, Para-Lux Products Co.

**TITANIC**, stripper, Spix Products Co.

**TITE-FLEX**, flexible metallic tubing, industrial and finishing filters, Titeflex, Inc.

**TITSEAL**, gasket and joint sealing compound, Radiator Specialty Co.

**TOKEN-TAGS**, marking tags, Pre-Marked Strip Tag Co.

**TOLEDO**, scales, Toledo Scale Co.

**TOFAZ**, high-titer built soap chips, Armour & Co.

**TOP FLITE**, rubber belt, Webb Belting Co.

**TORKE**, time switches, Tork Clock Co., Inc.

**TORNADO**, blowers, industrial vacuum cleaners, floor machines, Breuer Electric Mfg. Co.

**TORRIDOR**, blower unit heater, Trane Co.

**TOTALUME**, aluminum paint, Wilbur & Williams Co.

**TOTRUST**, rust-inhibitive paint, Wilbur & Williams Co.

**TOUCH**, volatile dry spotter, G & G Chemical Co.

**TRAN-CEL-SEAL**, cellulose tape, Gummed Tape & Devices Co.

**TRANSAXIL**, electronic flame-guard safety pilot, Lee B. Mettler Co.

**TRANSITE**, asbestos-cement pipe, Johns-Manville

**TREET-O-UNIT**, constant rate proportioning pump, Proportioners, Inc.

**TRI**, for cleaning fluid, Walter Haertel Co.

**TRIAD**, alkali and emulsion cleaning compounds, Detrex Corp.

**TRI-CLAD**, motors, General Electric Co.

**TRICLENE**, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.

**TRICO**, air guns, fuse pullers, renewable fuses and elements, Trico Fuse Mfg. Co.

**TRICO**, wetcleaning sour, Trico Chemical Div., Tri-State Equipment Co.

**TRIMERSE**, enzymic digester, Trico Chemical Div., Tri-State Equipment Co.

**TRIO**, alkali compounds, bleach, boiler compound, Trio Chemical Works, Inc.

**TRIPLE-A**, joints, Quigley Co., Inc.

**TRIPLE "M"**, marking and tagging machines, Triple "M" Inc.

**TRIPLEX**, 140° drycleaning units, American Laundry Machinery Co.

**TRISOL**, stain remover, Eaton Chemical & Dye-stuff Co.

**TRIUMPH**, built non-ionic synthetic detergent, Armour & Co.

**TRIWAY**, fur finishing machine, Walter Haertel Co.

**TRI X**, fumigant, Walter Haertel Co.

**TROPICALITE**, paint, Tropical Paint & Oil Co.

**TROPICAL**, nut shells for fur cleaning, Bernard Sirota Co.

**TROFILUX**, white enamel, Tropical Paint & Oil Co.

**TROUSER-FORMR**, pants shaper, Bill Glover, Inc.

**TROUS-GARD**, trouser guard, Para-Lux Products Co.

**TROY**, laundry machinery, Troy Laundry Machinery Div., American Machine & Metals, Inc.

**TROY-ENBERG**, steam engines, generators, Troy Engine & Machine Co.

**TROCLENE**, petroleum solvent for drycleaning, American Laundry Machinery Co.

**TRU COLOR**, dyeing, Tru Color Dye Works

**TRUFOLD**, shirt folding machine, J. W. Steele & Co.

**TRUFORM**, steam-iron garment finisher, American Laundry Machinery Co.

**TRUMATIC**, flatwork folder, American Laundry Machinery Co.

**TRUMP**, spot remover, Spix Products Co.

**TRU-SHEEN**, CONCENTRATE, drycleaning soap, Tru-Sheen Corp.

**TT TICKS TAG**, identification systems, Ticks-Tag Co.

**TUBE-O**, trouser guard, Garment Hanger Co.

**TUFF HIDE**, padding, Wood Conversation Co.

**TUFFLEX**, padding, Wood Conversation Co.

**TUFF-TEX**, metal press pads, X. S. Smith, Inc.

**TUMBOLITE**, lighting fixture for open-end tumblers, Donnell Co.

**TURBO ACTION**, washers, Zephyr Laundry Machinery Co.

**TURBO GUN**, spotting gun, Elliot Rabe Mfg. Co.

**TURBO-JET**, steam canopy, Hopkins Equipment Co.

**TURBO-VAC**, single press vacuum system, Pan-ter Mfg. Co.

**TURBO-VACUUM COMPRESSOR**, centrifugal refrigeration, Trane Co.

**TURCO**, insecticides, germicides, Turco Products, Inc.

**TURRET**, water supply pump, Yeomans Bros. Co.

**TUWAY**, strainers, Wright-Austin Co.

**TWEEN**, emulsifier, wetting agent, Atlas Powder Co., Industrial Chemicals Dept.

**20th CENTURY**, needle bearing, Roller Bearing Co. of America

**20-L**, laundry starch, Clinton Foods, Inc.

**TWENTY-TWENTY**, front-loading washer, American Laundry Machinery Co.

**TWIN CONTACT CONTROLS**, controls, regulators, gauges, Perflex Corp.

**TWINMATIC**, washer and extractor, Imperial Laundry Machinery Co.

**TWINPLEX**, fur cleaning drum and cage, Walter Haertel Co.

**TWIN-PRESS**, drycleaning press, Reliable Steam Pressing Machine Service Co.

**TWIN RAPID**, automatic shirt press, general purpose press, Reliable Steam Pressing Machine Service

**TWINTAINER**, extractor, Fletcher Works, Inc.

**TWIN-TEX**, metal press pads, X. S. Smith, Inc.

**TWIST-EMS**, hanger combiners, Germain's Germaco Products Div.

**TWISTEMS**, hanger combiners, H. F. Hanscom & Co.

**TWITCHELL**, emulsifying bases, Emery Industries, Inc.

**2GAV**, compressor plant, Westinghouse Air Brake Co., Industrial Products Div.

**209**, general formula, R. R. Street & Co., Inc.

**249**, stripper, Patek & Co.

**TY-BORDS**, forms for pressing neckties, Joe L. Winner

**TYCO**, stick machine cleaner for hot irons, presses, Tyson Sales Co., Inc.

**TYGON**, plastics, U. S. Stoneware Co.

**TYMIT**, timers, Tork Clock Co., Inc.

**TY-T**, nylon press covers, F. H. Bonn Co.

**TYFE 16, 16+, 16+2, 16R**, soap builders, Turco Products, Inc.

**TYUPS**, bundle tapers, Tie Co.

## U

**U. S. MODEL 518-1**, U. S. Blend Stitch Machine Corp.

**U. S. KOGLOON**, press pads, sponge, Newhouse Co.

**U. S.**, stoneware jars, U. S. Stoneware Co.

**UCON**, lubricants (synthetic oil and grease), Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

**UCON**, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.

**U-DOR-A**, spot remover, Nu-Pro Mfg. Corp.

**ULTRA-LITE**, sour, Standard Chemical Works Co.

**ULTRA-SOL**, soap builder, Thompson-Hayward Chemical Co.

**ULTRA-SPEED**, drying tumbler, American Laundry Machinery Co.

**ULTRA-WITE**, fluorescent compound, whiteners, H. Kohnstamm & Co., Inc.

**UNAFLOW**, steam engines, Ames Iron Works

**UNA RETURN**, ironer, Zephyr Laundry Machinery Co.

**UNIFLO**, drycleaning washer, Western Laundry Machinery Co.

**UNIFOM**, C, rug and upholstery cleaning detergents, Fumol Corp.

**UNILEVER**, cylinders, Zephyr Laundry Machinery Co.

**UNIPRESS**, air-driven laundry presses, Unipress Co.

**UNITED**, washable uniforms, United Cotton Goods Co., Inc.

**UNITHERM**, unit heaters, Clargene Fan Co.

**UNITHRIFT**, complete drycleaning unit, Butler Mfg. Co.

**UNIT KLEEN**, drycleaning washer-extractor, Unit Wash Co.

**UNIT WASH**, laundry washer-extractor, Unit Wash Co.

**UNIVALVE**, valves, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.

**UNIVERSAL GIANT**, compression and flexible couplings, shaft hangers, T. B. Wood's Sons Co.

**UNIVERSAL SPEED-FEED**, device for feeding continuous forms through typewriters and billing machines, Egly Register Co.

**UNIVERSAL STRIPPER**, stain remover and stripper, H. Kohnstamm & Co., Inc.

**UNLOADING CASCADE**, laundry washer, American Laundry Machinery Co.

**UNOX**, penetrant for fire-fighting, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

**URBAN**, truck bodies, Montpelier Mfg. Co.

**U-SAN-O**, mothproofing, American Mothproofing Co.

**USTEX**, wire and cable, U. S. Rubber Co.

## V

**V-C**, feed ribbons, textiles, Virginia-Carolina Laundry Supply Co.

**V.D.**, spotter, Adco, Inc.

**VALETOR**, drycleaning equipment, U. S. Hoffman Machinery Corp.

**VANETTE**, truck bodies, Vanette Div., Universal Sales, Inc.

**VANITE**, liquid detergent, Adco, Inc.

**VAPOR-CLARKSON**, steam generating unit, Steam Engineering & Sales Co.

**VAPOR-CLARKSON**, steam tumbler, reclamer, U. S. Hoffman Machinery Corp.

**VAULTMASTER**, fur cleaning and storage equipment, Huebisch Div., American Laundry Machinery Co.

**VEE-LOK**, clutch facings, Raybestos-Manhattan, Inc.

**VEE-THREE**, paste drycleaning soap, Riverside Mfg. Co.

**VEGETABLE IVORY**, buttons, Eureka Button Co.

**VELAN UNIVERSAL**, steam trap, Velan Engineering Co.

**VELCO**, marking ink and sets, Ink-O Products Co.

**VELOCITY DRAINER**, steam trap (float), Wm. Acker Organization, Inc.

**VELOCITY STEAM**, steam system, Velocity Steam Production Engineering Co.

**VELVET RAINBOW**, combination starch, Huron Milling Co.

**VELVET WHEAT**, wheat starch, Huron Milling Co.

**VELOVO**, wetcleaning soap, Davies-Young Soap Co.

**VERSI**, laundry and wetcleaning textile finishing compound, John T. Stanley Co., Inc.

**VERTEX**, low-liter soap flakes, Swift & Co.

**VIBRAMOVER**, fur cleaning table, Walter Haertel Co.

**VIBRA-SORBER**, pipeline vibration absorber, Chicago Metal Hose Corp.

**VIC**, drycleaning washers, drying cabinets, Vic Cleaning Machine Co.

**VIC 90**, synthetic solvent drycleaning machine, Vic Cleaning Machine Co.

**VICTOR**, straight pins, Rudson Mfg. Co.

**VICTOR**, wheat starch, Keefer Starch Co.

**VICTORY**, blue, Minnesota Chemical Co.

**VICTORY**, drycleaning soap, Patek & Co.

**VICTORY**, fur cleaning fluid, Bernard Sirota Co.

**VICTORY**, laundry marking tag, Tagit Co.

**VIGIL**, diaper antiseptic and deodorant, Patek & Co.

**VIKE**, pipe joint compound, Keystone Lubricating Co.

**VIRKING**, intermediate quality, dry press firebrick, Mexico Refractories Co.

**VIRKING**, pumps, Viking Pump Co.

**VIM**, leather packing, belting, E. F. Houghton & Co.

**VIM**, steam engine, Ames Iron Works

**VIRGINIA**, apron cement, blue, marking pen points, Virginia-Carolina Laundry Supply Co.

**VIRGINIA GREENSTONE**, non-skid floor surfacing material, soaking and rinsing tubs, wetcleaning tables, Virginia Greenstone Co., Inc.

**VISCOR**, filter, Weston Electrical Instrument Corp.

**VITA-CAL**, self-sealing flat wall finish in semi-waste form, Vita-Var Corp.

**VITA-COLOR**, mildewproofing, weatherproofing finishes, Vita-Var Corp.

**VITA-LUX**, synthetic white enamel spar varnish, Vita-Var Corp.

**VITA-VAR**, paints, enamels, varnishes, Vita-Var Corp.

**VITEK**, drycleaning soaps, Patek & Co.

**VIVIDOL C1**, synthetic drycleaning detergent, Stamford Chemical Co.

**VIVIDOL 11**, petroleum drycleaning detergent, Stamford Chemical Co.

**VIVIPRESS**, finishing compound, steam treating chemical, Stamford Chemical Co.

**VOKES**, air cleaners, filters, separators, strainers, Drico Industrial Corp.

**VOLCLAY**, bentonite clay, American Colloid Co.

**VOLTEX**, spotting agent, Spix Products Co.

**VOL-U-METER**, flow responsive proportioning pump, Proportioners, Inc.

**VORCLONE**, extractors, tumbler, U. S. Hoffman Machinery Corp.

**VORSEC**, extractors, drycleaning units, U. S. Hoffman Machinery Corp.

**V-DRIVE**, all-electric adjustable speed drive for a.c. circuits, Reliance Electric & Engineering Co.

**VULCAN**, cover cloth, Pittsburgh Waterproof Co.

**VULCAN**, stokers, Canton Stoker Corp.

**VULCATEX**, caulking and glazing compound, A. C. Horn Co., Inc.

**V & W**, assorting reels, V & W Equipment Co.

## W

**W.D.P.**, wet or dry prespotter, Warco Laboratories

**W.L.**, drycleaning detergents, Calo Products Co.

**W. F. R.**, wet and dry paint remover, National Cleaners Chemical Mfg. Co.

**WALCO**, pipe wrench, Walworth Co.

**WALDORF**, paper hangers, Waldorf Co.

**WALHIDE**, paint, Pittsburgh Plate Glass Co., Paint Div.

**WALSEAL**, threadless bronze fitting, Walworth Co.

**WALSH**, diaphragms, gaskets, packings, pump valves, Walsh Packing Co.

**WAREHOUSER**, industrial trucks, Rapid-Standard Co., Inc.

**WARREN**, leather belting, cement, dressing, Warren Belting Co., Inc.

**WASH-A-WAY**, washer, Cook Machinery Sales Co.

**WASHEX**, combination washer-extractor, Fabric Laundry & Dry Cleaning Machinery Corp.

**WASHINE**, bleach (sodium hypochlorite), Washine National Sands, Inc.

**WASHINITE**, detergent, Washine National Sands, Inc.

**WASHMOR**, nylon laundry nets, Tingle, Brown & Co.

WASHOMETER, washing machine recorder, Huebsch Div., American Laundry Machinery Co.  
 WASHTEX, overall compound, Thompson-Hayward Chemical Co.  
 WATCH-DOG, water meters, Worthington Pump & Machinery Corp.  
 WATCOCELL, asbestos pipe covering, blocks, Rubberoid Co.  
 WATERPROOF PRK, water repellent, Apex Chemical Co., Inc.  
 WATERSPAR, polishing wax, Pittsburgh Plate Glass Co., Paint Div.  
 WATERWAY, laundry combination washer-extractor, Pantex Mfg. Co.  
 WEAVE-BAC, rewaving process, Weave-Bac WEDGE-LOCK, steel shelving, Berger Mfg. Div., Republic Steel Corp.  
 WEDGEWAX, anti-ikid floor wax, Pest Control Equipment Co.  
 WEE-SCOT, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.  
 WELDMASTER, platform, Lewis-Shepard Products, Inc.  
 WELPCO, steam valves, discs, Western Laundry Press Co.  
 WERKRITE, neutral tallow flakes, powder, Allen B. Wrisley Co.  
 WERK'S COLDWATER, built red oil soap, M. Werk Co.  
 WESCLENE, liquid break, West Side Corp.  
 WESCO, paint and grease remover, West Side Corp.  
 WESCOTT, shirt packaging supplies, Wescott Products Corp.  
 WESOFORM, safety chloroform, West Side Corp.  
 WEST COAST, extractors, washers, ironers, curtain stretchers, West Coast Laundry Machinery Co.  
 WESTERN, deep well turbine pumps, deep well turbine pressure systems, Western Pump Co., Ltd.  
 WESTERN, laundry washers, extractors, dycleaning washer, Western Laundry Machinery Co.  
 WESTINGHOUSE, air compressors, Westinghouse Air Brake Co., Industrial Products Div.  
 WESTINGHOUSE, lamps, Westinghouse Electric Corp.  
 WESTON, instruments, Weston Electric Instrument Corp.  
 WESTTEX, soap builder, West Side Corp.  
 WESTVACO, chlorinated solvent (synthetic), Westvaco Chemical Div., Food Machinery & Chemical Corp.  
 WET-AGE, wet spotter, G & G Chemical Co.  
 WETAWAY, water repellent, Carman & Co., Inc.  
 WET-CLEAN-EZE, wetcleaning soap, Rayochem Products Co.  
 WETKLENE, liquid wetcleaning soap, Allen & Vickers, Inc.  
 WET-O-DRY, paint remover, Merson Products Co.  
 WETSIT CONC., wetting agents, Jacques Wolf & Co.  
 WETSPOT, wet spotter, Adco, Inc.  
 WETSYN, synthetic detergent, E. F. Drew & Co., Inc.  
 WETTEX, wet cleaner, Essential Chemicals Co.  
 WETSPOTTER, paint, oil and grease remover, Riverside Mfg. Co.  
 WHALEBONE, leather and waterproof leather belting, Charlotte Leather Belting Co.  
 WHEATEX, combination starch, Huron Milling Co.  
 WHEAT-N-CORN, combination starch, Keevee Starch Co.  
 WHEEL, starch, A. E. Staley Mfg. Co.  
 WHEEL-EZY, hand truck, Rapids-Standard Co., Inc.  
 WHIRL-SORT, sorting reel, Franklin Mfg. Co.  
 WHIRLWIND, extractor, Fletcher Works, Inc.  
 WHITE CAP, dycleaning soap, Midland Color & Chemical Co.  
 WHITE CAP, laundry blue, Beach Soap Co.  
 WHITEHOUSE, nylon cover cloth, flannel, press covers, sewing thread, flatwork ironer cord and tape, Whitehouse Products, Inc.  
 WHITE HOUSE, wheat starch, Huron Milling Co.  
 WHITEHOUSE BLUE STREAK, nylon nets, Whitehouse Products, Inc.  
 WHITEHOUSE ROK RID, nylon nets, Whitehouse Products, Inc.

WHITEINT, fluorescent dye addition to soaps, Carlton Chemical Co., Inc.  
 WHITE LABEL, medium-titer neutral soap, Beach Soap Co.  
 WHITE RIBBON, tallow soap chips and powder, Swift & Co., Inc.  
 WHITE STAR, dycleaning paste soap, R. R. Street & Co., Inc.  
 WHITLOCK, preheaters, Whitlock Mfg. Co.  
 WHITSON SYSTEM, boiler return systems, Healy-Bull Co.  
 WICK, tapes and braids, Wick Narrow Fabric Co.  
 WILLIAMS, laundry and dycleaning machinery, Williams Laundry Machinery Co., Inc.  
 WILLIAMS & DAVIS, boilers, condensation return systems, return units, boiler feed water systems, Williams & Davis Boiler & Welding Co., Inc.  
 WILLIS-MILCO, rug beater, A. O. Miller Co.  
 WILSON, vacuum system, Earl Wilson  
 WINDO, cedarized storage bag, Lincoln Bag Co.  
 WING CLAMP, collar support, Para-Lux Products Co.  
 WING-GARDS, hanger shields, Para-Lux Products Co.  
 WING-LOCK, collar support, Para-Lux Products Co.  
 WING-ROLL, collar support, Para-Lux Products Co.  
 WINKLER, stokers, U. S. Machine Corp.  
 WIZARD, extractors, Hammond Laundry-Cleaning Machinery Co.  
 WIZARD, laundry net, Southern Mills, Inc.  
 WOLF, electric cloth cutters, fabric drills, Wolf Machine Co.  
 WOLKIND, formal wear rental service, Wolkind Bros.  
 WOLVERINE, synthetic dycleaning machine, Wolverine Sales Co.  
 WONDER WASH, special detergent, Wonder Wash Corp.  
 WONDER WORKER, sewing machine, U. S. Blind Stitch Machine Corp.  
 WONDRESS, flatwork ironer pads, Southern Mills, Inc.  
 WOOL soap, Swift & Co.  
 WORKHORSE, rug scrubber, Certified Chemical & Equipment Co.  
 WORK SAVERS, dycleaning truck, Time Savers, Inc.  
 WRAP-O-MATIC, automatic paper cutting and wrapping machine, Rosenthal Mfg. Co.  
 WULPRESS, wool press cloth and surface cloth, nylon and wool press and surface cloth, Arms Textile Mfg. Co.  
 WYANDOTTE, detergents, soaps, Wyandotte Chemicals Corp.  
 WYTEN, soap builder, Turco Products, Inc.  
 WYTINO, stripper, Kuehne Chemical Co.

## X

X. L., built synthetic detergent, Armour & Co.  
 XANNO, indelible ink (no heat), Applegate Chemical Co.  
 X-PANDO, collar supports, Time Savers, Inc.  
 XTRA, nylon press cloth, X. S. Smith, Inc.

## Y

YA-DE, mothproof, Crossland Mfg. Co., Inc.  
 YARMOR, fine oil Hercules Powder Co.  
 YARWAY GUN PAKT, expansion joints, Yarnall-Waring Co.  
 YARWAY HI-LO ALARM, water columns, Yarnall-Waring Co.  
 YARWAY HI-LO-GRAPIH, liquid level recorder, Yarnall-Waring Co.

YARWAY IMPULSE, steam traps, Yarnall-Waring Co.  
 YARWAY INVOLUTE, spray nozzles, Yarnall-Waring Co.  
 YARWAY SEATLESS, blow-off valves, Yarnall-Waring Co.  
 YARWAY SECURE INCLINED, water gauges, Yarnall-Waring Co.  
 YELLOWGO, liquid dye-reducing agent, A. L. Wilson Chemical Co.  
 YELLOW REMOVERS, dye stripper, Patek & Co.  
 YELLOW SPECIFIC NO. 15, liquid stripper, Carman & Co., Inc.  
 YELO-LIQUID COLD STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.  
 YORK-HEAT, burners, generators, York-Shipley, Inc.

## Z

Z-P, dycleaning soaps, Caled Products Co., Inc.  
 Z-AIR, dycleaning press, Prosperity Co., Inc.  
 ZANZIBAR-CARBON, blues, curtain colors, indelible ink, indelible ink eradicator and thinner, B. Heller & Co.  
 ZARMITE, foot-power laundry presses, American Laundry Machinery Co.  
 ZARMO, foot-power laundry presses, American Laundry Machinery Co.  
 ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.  
 ZEETONE, paint remover, Riverside Mfg. Co.  
 ZELAN, durable water repellent, E. I. du Pont de Nemours & Co., Inc.  
 ZELCO, press and ironer pads, padding, press covers, Nathan Zelleremayer & Co.  
 ZELTEX, press and ironer pads, padding, press covers, Nathan Zelleremayer & Co.  
 ZENITH, electric timers, Zenith Electric Co.  
 ZENITH, extractors, filters, washers, biltingly Machinery Co.  
 ZEOLITE, boiler feed water treatment, National Chemical Sales Co., Laboratory, Inc.  
 ZEPHYR, extractor, ironer, washer, Zephyr Laundry Machinery Co.  
 ZERO, combination water softener and iron removers, neutralizers, Zero Water Softener Mfg. Co.  
 ZEROSOFT, water softener, iron remover, filter, zeolite, Zero Water Softener Mfg. Co.  
 ZEST, synthetic wetcleaning soap, Adco, Inc.  
 ZIG-ZAG, heat exchangers, David Stout & Sons  
 ZIP, Celanese curtain finisher, Hopkins Equipment Co.  
 ZIP, go-lack conveyor, Time Savers, Inc.  
 ZIPOLA, lubricant, High Chemical Co.  
 ZIPON, leather finish, Keystone Aniline & Chemical Co., Inc.  
 ZIPPER-EASE, stainless lubricant, A. G. S. Co.  
 ZIPPO, wetcleaning detergent, Benda Products, Inc.  
 ZIP-R-FIX, tool kit for repairing zippers, Mars Tool Co.  
 ZIP STIK, ink remover, Keystone Aniline & Chemical Co., Inc.  
 ZOL, synthetic dycleaning solvent, Stauffer Chemical Co.  
 ZOLVIT, paint, oil and grease remover, Riverside Mfg. Co.  
 ZONE-AIR, leather reconditioning unit, American Laundry Machinery Co.  
 ZONE-AIR, laundry or dycleaning drying tumbler, American Laundry Machinery Co.  
 ZONEX, chloroform substitute, Package Chemical Co.  
 ZORIC, garment cleaning system, American Laundry Machinery Co.  
 Z-RAY, dycleaning detergent, Delan Co.  
 ZUCKERBERG, replacement collars and cuffs for white shirts, Zuckerberg Co.  
 ZUDS, penetrant, Caled Products Co., Inc.  
 ZURON, petroleum solvent dycleaning unit, American Laundry Machinery Co.  
 ZYME, enzyme stripping and cleaning compound, Carman & Co., Inc.  
 ZYMO, enzymic spot remover, Keystone Aniline & Chemical Co., Inc.



# Manufacturers

## equipment and supply producers listed alphabetically with their mailing addresses

### A

A. A. A. Weaving Service, 1182 Madison Ave., New York 28, N. Y.  
**AA Laundry & Cleaning Machinery Co.**, 508 Christopher St., Brooklyn 12, N. Y.  
**A. A. Laundry Machinery Co.**, 1110-12 S. Kedzie Ave., Chicago 12, Ill.  
**A. G. S. Co.**, Muskegon, Mich.  
**Academy Hanger Co.**, Inc., 177 E. 123rd St., New York 35, N. Y.  
**Academy Paper Box Co.**, 3804 Park Ave., New York 56, N. Y.  
**Ace Cabinet Corp.**, Belleville Ave., New Bedford, Mass.  
**Ace Fastener Corp.**, 3415 N. Ashland Ave., Chicago 13, Ill.  
**Ace Hose & Rubber Co.**, 761 W. Van Buren St., Chicago 7, Ill.  
**Acker Organization, W. M., Inc.**, 3167 Fulton Rd., Cleveland 9, Ohio  
**Acme Dye House, Inc.**, 7606 Carnegie Ave., Cleveland 3, Ohio  
**Acme Hatters Supply Co.**, 104-106 Bleecker St., New York 12, N. Y.  
**Acme Industrial Compounds Corp.**, 625 S. Goodman, Rochester 7, N. Y.  
**Acme Soap Co.**, 251 Third St., Cambridge 42, Mass.  
**Adams Weaving Co.**, 1123 Republic Bldg., Chicago 4, Ill.  
**Adco, Inc.**, 900-928 W. Main St., Sedalia, Mo.  
**Addressograph-Multigraph Corp.**, 1200 Babbitt Rd., Cleveland 17, Ohio  
**Adell Chemical Co.**, 176 Race St., Holyoke, Mass.  
**Adrian Research & Chemical Co., Inc.**, Elm & Pennsylvania Aves., North Wales, Pa.  
**Aerco Corp.**, 214 Lafayette Place, Englewood, N. J.  
**Aerovent Fan Co.**, 700 E. Ash St., Piqua, Ohio  
**Alert Engineering Products**, 315 W. Woodbridge St., Detroit 26, Mich.  
**Allcraft Mfg. Co.**, 27 Hayward St., Cambridge 42, Mass.  
**Allegheny-Ludlum Steel Corp.**, 2020 Oliver Bldg., Pittsburgh 22, Pa.  
**Allen, R. C., Business Machines, Inc.**, 678 Front St., N. W., Grand Rapids, Mich.  
**Allen & Vickers, Inc.**, 495 Glen Iris Dr., N. E., Atlanta 3, Ga.  
**Allied Equipment Co.**, 7671 Rogers Ave., Chicago 26, Ill.  
**Allied Laundry Machinery Corp.**, 256 Wythe Ave., Brooklyn, N. Y.  
**Allied Printing & Stationery Co., Inc.**, 270 Lafayette St., New York 12, N. Y.  
**All-in-One Mfg. & Supply Co.**, 1408 Cook St., Houston 6, Texas  
**Allis-Chalmers Mfg. Co.**, 1126 S. 70th St., Milwaukee 1, Wisc.  
**Allis, Louis Co.**, 427 E. Stewart St., Milwaukee 7, Wisc.  
**Altmore Dye House**, 4412-4424 Wentworth Ave., Chicago 9, Ill.  
**Alrose Chemical Co.**, 180 Mill St., P.O. Box 1294, Providence, R. I.  
**Aluminum Co. of America**, 640 Gulf Bldg., Pittsburgh 19, Pa.  
**Ambassador Continuous Towel Cabinet Co.**, 125 N. Mission Rd., Los Angeles 33, Cal.  
**Amber Mfg. Co.**, 607 S. Union Ave., Los Angeles 14, Cal.  
**Amber School of Weaving**, 611 Main St., Buffalo 8, N. Y.  
**American Air Compressor Corp.**, 48th & Dell Ave., North Bergen, N. J.  
**American Aniline Products, Inc.**, 820 S. Clinton St., Chicago 7, Ill.  
**American Associated Cos., Inc.**, 451-461 Stephens St., S. W., Atlanta, Ga.  
**American Brake Shoe Co.**, Kellogg Div., Rochester 9, N. Y.  
**American Brass Co.**, American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.  
**American Coal Burner Co.**, 18 E. Erie St., Chicago 11, Ill.  
**American Coat Hanger Mfg. & Specialty Co.**, 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.

**American Colloid Co.**, 363 W. Superior St., Chicago 10, Ill.  
**American Coolair Corp.**, Box 2300, Jacksonville 3, Fla.  
**American District Steam Co.**, 70 Bryant St., North Tonawanda, N. Y.  
**American Dyeing & Cleaning Co.**, 4110 Worth St., Dallas 1, Texas  
**American Electrical Heater Co.**, 6110 Cass Ave., Detroit 2, Mich.  
**American Engineering Co.**, Aramingo Ave. & Cumberland St., Philadelphia 25, Pa.  
**American Felt Co.**, Glenville, Conn.  
**American Hair & Felt Co.**, 1828 Merchandise Mart, Chicago 54, Ill.  
**American Hatters Supplies, Inc.**, 9 E. Harrison St., Chicago 5, Ill.  
**American Heat Corp.**, 80 Boylston St., Boston 16, Mass.  
**American Institute of Laundering**, Joliet, Ill.  
**American K.A.T. Corp.**, 331 Madison Ave., New York 17, N. Y.  
**American-La France-Foamite Corp.**, 100 E. La France St., Elmira, N. Y.  
**American Laundry Machinery Co.**, Norwood Station, Cincinnati 12, Ohio  
**American Mineral Spirits Co.**, 230 N. Michigan Ave., Chicago, Ill.  
**American Monorail Co.**, 13107 Athens Ave., Cleveland 7, Ohio  
**American Mothproofing Co.**, 711 N. Euclid Ave., St. Louis 8, Mo.  
**American Numbering Machine Co.**, Atlantic & Shepherd Aves., Brooklyn 8, N. Y.  
**American Pressboard Co.**, 110 W. 30th St., New York 1, N. Y.  
**American Shirt Co.**, 1123 Broadway, New York 10, N. Y.  
**American Sterilizer Co.**, 1230 Plum, Erie, Pa.  
**American Telephone & Telegraph Co.**, 195 Broadway, New York 7, N. Y.  
**American Textile Weaving Co.**, 5 N. Wabash, Chicago, Ill.  
**American Water Softener Co.**, 4th & Lehigh, Philadelphia 33, Pa.  
**American Wire Form Co.**, 265 Grant Ave., Jersey City 5, N. J.  
**American Writing Ink Co., Inc.**, 15 Hathaway St., Boston, Mass.  
**Ames Iron Works, E. Second & Cayuga Sts.**, Oswego, N. Y.  
**Anderson, Glenn L.**, 3887 Bushnell Rd., Cleveland 18, Ohio  
**Anderson Box & Basket Co., Inc.**, Henderson, Ky.  
**Anderson, V. D., Co.**, 1935 W. 96th St., Cleveland 2, Ohio  
**Anderson-Prichard Oil Corp.**, Apco Tower, Oklahoma City 2, Okla.  
**Anderson, M. Y. E.**, 88th St., New York 28, N. Y.  
**Andrew Paper Box & Bag Corp.**, 845 Gates Ave., Brooklyn 23, N. Y.  
**Andrew Technical Service**, 11 E. Delaware Pl., Chicago 11, Ill.  
**Angelica Uniform Co.**, 1419-29 Olive St., St. Louis 3, Mo.  
**Angle Steel Stool Co.**, 403 Water St., Plainwell, N. J.  
**Ansel Chemical Co.**, Marinette, Wisc.  
**Anthony Co.**, 47-53 Fifth St., Long Island City 1, N. Y.  
**Ansul Chemical Co., Inc.**, 225 W. 34th St., New York 1, N. Y.  
**Applegate Chemical Co.**, 5632 Harper Ave., Chicago 37, Ill.  
**Archer Corp.**, 1450 Broadway, New York 18, N. Y.  
**Arabol Mfg. Co.**, 110 E. 42nd St., New York 17, N. Y.  
**Armstrong Laboratories**, 1900 E. 65th St., Los Angeles 1, Cal.  
**Armour & Co.**, 1355 W. 31st St., Chicago 9, Ill.  
**Arma Textile Mfg. Co.**, 51 Madison Ave., New York 10, N. Y.  
**Armstrong Hart Co.**, 381 Peachtree, N. E., Atlanta 3, Ga.  
**Armstrong Machine Works**, 850 Maple St., Three Rivers, Mich.

**Arnold-Hoffman & Co., Inc.**, 55 Canal St., Providence, R. I.  
**Aroscent, Inc.**, P. O. Box 269, Dobbs Ferry, N. Y.  
**Arrow Fastener Co., Inc.**, 30-38 Maujer St., Brooklyn 6, N. Y.  
**Arrow Mfg. Co., Inc.**, 2924 Terrace St., Kansas City 8, Mo.  
**Arrow Tank Co., Inc.**, 16 Barnett St., Buffalo 15, N. Y.  
**Artko Mfgs.**, 7053 S. South Chicago, Chicago 37, Ill.  
**Ashton Valve Co.**, 161 First St., Cambridge 39, Mass.  
**Asselin, Victor, Inc.**, 150 W. 30th St., New York 1, N. Y.  
**Associated Crib Diapers Cos.**, 4747 N. Damen Ave., Chicago 25, Ill.  
**Atlanta Brush Co.**, Box 1358, Atlanta 1, Ga.  
**Atlanta Paper Co.**, Marietta Ave., Atlanta, Ga.  
**Atlantic Stainproof Co.**, 10 Hudson Pl., Hoboken, N. J.  
**Atlas Body Co.**, 4150 E. Thompson St., Philadelphia 37, Pa.  
**Atlas Powder Co.**, Darco Dept., 60 E. 42nd St., New York 17, N. Y.  
**Atlas Powder Co., Industrial Chemicals Div.**, Wilmington 99, Del.  
**Atlas Powder Co., Revolute Sales Div.**, Stamford, Conn.  
**Atlas Steel Products, Inc.**, 1160 Chico Ave., El Monte, Cal.  
**Attapulugus Clay Co.**, 210 W. Washington Sq., Philadelphia 5, Pa.  
**Aurora Mfg. Co.**, 273 Tompkins Ave., Brooklyn 16, N. Y.  
**Autographic Register Co.**, Seventh & Park, Hoboken, N. J.  
**Automatic Paper Box Corp.**, 1011-25 S. California Ave., Chicago, Ill.  
**Automatic (Sussman) Steam Products Corp.**, 140 W. 31st St., New York, N. Y.  
**Automatic Temperature Control Co., Inc.**, Philadelphia 44, Pa.  
**Automobile Insurance Co.**, 151 Farmington Ave., Hartford, Conn.  
**A-Mor Machinery Co., Inc.**, 6546 N. Sheridan Rd., Chicago 26, Ill.

### B

**B & C Engineering Co.**, 2706 Chestnut St., Toledo, Ohio  
**B & G Machinery Co.**, 2432 Southeastern Ave., Indianapolis 1 Ind.  
**Brader, C. L. Co. Inc.**, 110 N. 10th St., Fort Smith, Ark.  
**Baehr Laundry Machine Co.**, 29 Calumet St., Newark 5, N. J.  
**Babson Co.**, 1001 S. Marshall St., Winston-Salem, N. C.  
**Bailey Meter Co.**, 1050 Ivanhoe Rd., Cleveland 10, Ohio  
**Bailey, Frhoda & Co.**, 326 W. Kalamazoo Ave., Kalamazoo 11, Mich.  
**Baker, J. T., Chemical Co.**, N. Broad St., Phillipsburg, N. J.  
**Baltimore Specialties Co.**, 419 W. Baltimore St., Baltimore 1, Md.  
**Band Box Corp.**, 2301 Chouteau Ave., St. Louis 3, Mo.  
**Barco Mfg. Co.**, 1801-15 Winnemac Ave., Chicago 40, Ill.  
**Barreled Sunlight Paint Co.**, 10 E. Dudley St., Providence 1, R. I.  
**Barratt Div., Allied Chemical & Dye Corp.**, 40 Rector St., New York 6, N. Y.  
**Bart, Stuart, Inc.**, 114 E. 32nd St., New York 16, N. Y.  
**Barlett Label Co.**, 2135 Portage St., Kalamazoo 29F, Mich.  
**Bassick Co.**, 38 Austin St., Bridgeport 2, Conn.  
**Bauer, Samuel, & Sons, Inc.**, 143 W. 29th St., New York, N. Y.  
**Beach Soap Co.**, 125 Lawrence St., Lawrence, Mass.  
**Beaver Pipe Tools, Inc.**, 310 Dana, N. E., Warren, Ohio



## C

- Behrstock, L. Co., 1708 S. State St., Chicago 16, Ill.
- Belco Industrial Equipment Div., Inc., 50 Iowa Ave., Paterson 3, N. J.
- Belmont Packing & Rubber Co., Butler & Sepulveda Sts., Philadelphia 37, Pa.
- Belnap & Thompson, Inc., 271 Madison Ave., New York, N. Y.
- Bemis Bro. Bag Co., 408 Pine St., St. Louis 2, Mo.
- Benda Products, Inc., 120 Potter St., Cambridge 43, Mass.
- Bendix Aviation Corp., Flexible Hose Div., U. S. Route 6, Teterboro, N. J.
- Bennall Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn 7, N. Y.
- Berges Machine Tool Co., Inc., Rands Unit Springs Div., 189 Franklin Ave., Nutley 10, N. J.
- Berger Damage Reweaving Co., 860 Madison Ave., New York 21, N. Y.
- Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio
- Berion Mfg. Co., 38 Blaine Ave., Marion, Ohio
- Berworth Chemical Co., Waverly St., Framingham, Mass.
- Bertsch & Co., Inc., Cambridge City, Ind.
- Besler Corp., 408 E. Main St., Emmerville 8, Cal.
- Best Forms Co., 10 Grace St., P. O. Box 736, Wilmington, North Carolina
- Better Packages, Inc., 235 Canal St., Shelton, Conn.
- Big Ben Petroleum Products Co., 624 S. Michigan Ave., Chicago 5, Ill.
- Bigelow-Sanford Carpet Co., 136 Madison Ave., New York 16, N. Y.
- Bildwell Manufacturers, 315 E. Liberty St., Ann Arbor, Mich.
- Billingly Machinery Co., 4316-4404 Main St., Dallas, Texas 2, Ohio
- Bimberg, Ben. & Co., Inc., 373 Broadway, New York 13, N. Y.
- Bisals Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
- Bishop, Barry, Co., 103 E. 125th St., New York 35, N. Y.
- Bishop, G. H. Co., 618 S. Kolmar Ave., Chicago 24, Ill.
- Bixbee Research, Div. of Blazemaster, Inc., 56 S. 11th St., Brooklyn 11, N. Y.
- Blackmer Pump Co., 1809 Century Ave., S. W., Grand Rapids 9, Mich.
- Blenco Co., 215 Havemeyer St., Brooklyn 11, N. Y.
- Bock Laundry Machine Co., Toledo Factories Bldg., Toledo 2, Ohio
- Bond Foundry & Machine Co., Manheim, Pa.
- Bond Street Bag & Paper Corp., 90 First St., Brooklyn 31, N. Y.
- Bonis Bros. Fur Machinery Corp., 312 Seventh Ave., New York 1, N. Y.
- Bonn, F. H. Co., 619 W. Fulton St., Chicago 40, Ill.
- Bostitch, Inc., Mechanic St., Westerly, R. I.
- Boston Clip & Tag Co., 48 Grove St., Somerville, Mass.
- Bostwick-Batterson Co., 315-23 N. 12th St., Philadelphia 7, Pa.
- Bostwick Laboratories, 706 Bostwick Ave., Bridgeport 5, Conn.
- Bowser, Inc., 1812 E. Creighton Ave., Fort Wayne 6, Ind.
- Brabook, A. N., 424 Madison Ave., New York 17, N. Y.
- Brady Conveyors Corp., 20 W. Jackson Blvd., Chicago 4, Ill.
- Brann Brush Co., 8833 78th St., Woodhaven 21, N. Y.
- Bready Engineering Corp., 5003 N. Cumberland Blvd., Milwaukee 11, Wisc.
- Brenco Co., Platteville, Wisc.
- Bressler Engineering Service, 509 N. Fourth Ave., Oregon 1, Ill.
- Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40, Ill.
- Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
- Brillo Mfg. Co., Inc., 60 John St., Brooklyn 1, N. Y.
- Bristol Co., Waterbury 91, Conn.
- Brooks, Alfred J., 184 Dent St., West Roxbury, Boston, Mass.
- Brownell Co., 450 N. Findlay St., Dayton 1, Ohio
- Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Brunner & Zinnel, 6211 N. Bay Ridge Ave., Milwaukee, Wisc.
- Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
- Brunt Mfg. Co., 64 S. Division St., Buffalo 3, N. Y.
- Bryan Steam Corp., Chili Pike, Peru, Ind.
- Buffa Meter Co., 2917 Main St., Buffalo 14, N. Y.
- Bunn, B. H. Co., 7805 Vincennes Ave., Chicago 20, Ill.
- Burcott Mills, 616 W. Fulton St., Chicago 6, Ill.
- Burgess-Berliner Associates, 214 S. First St., Chicago, Ill.
- Burkurst Specialties Co., 14019 Wyoming Ave., Detroit 4, Mich.
- Burrongs Adding Machine Co., Detroit 32, Mich.
- Bussard, R. D., & Son, 505 E. Fifth Ave., Albany, Ore.
- Butler Engineering Co., 928 Magazine St., New Orleans, La.
- Butler Mfg. Co., 7400 E. 13th St., Kansas City 3, Mo.
- C & H Electric Co., 436 W. Juneau Ave., Milwaukee 3, Wisc.
- C. O. D. Cleaning & Dyeing Co., Davenport, Iowa
- Calwell, W. E. Co., 2050 Brook St., Louisville, Ky.
- Caled Products Co., Inc., 4200 Bladensburg Blvd., Brentwood, Md.
- Calgon, Inc., Hagan Building, Pittsburgh, Pa.
- California Laundry Equipment Co., 2221 Union St., Oakland, Cal.
- Callaway Mills, Inc., 295 Fifth Ave., New York 16, N. Y.
- Cambridge Instrument Co., Inc., 3192 Grand Central Terminal, New York, N. Y.
- Campbell Box & Tag Co., Main & Sample Sts., South Bend, Ind.
- Campbell, J. A. Co., 645 E. Wardlow Rd., Long Beach 7, Cal.
- Canton Stokers Corp., 1600 Andrew Pl., S. W., Canton 1, Ohio
- Canvas Specialty Co., P. O. Box 937, Hartford 1, Conn.
- Capital Poster Service, 307 Canal St., New York, N. Y.
- Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbide Corp., 30 E. 42nd St., New York 17, N. Y.
- Carey, Fuller, Mfg. Co., Cincinnati 15, Ohio
- Carew Salt Co., Carey Bldg., Hutchinson, Kans.
- Carl, Chas. W. Sons, Cole St. & Reading R. R., Trenton 4, N. J.
- Carbonyl Marking Tag Co., Inc., 33 Commerce St., New York 14, N. Y.
- Carman & Co., Inc., 70 Summit St., Brooklyn 31, N. Y.
- Carroll-Illinois Steel Corp., Carnegie Bldg., Pittsburgh 30, Pa.
- Carrier Corp., Syracuse, N. Y.
- Carson Textile Co., Inc., 2401 S. Swanson St., Philadelphia 16, Pa.
- Carter's Ink Co., 239 First St., Cambridge 42, Mass.
- Carver Pump Co., Hershey & Green Sts., Muscatine, Iowa
- Cash, A. W. Co., P. O. Box 551, Decatur, Ill.
- Cash, J. & J., Inc., Chestnut St., South Norwalk, Conn.
- Cashington Tractor Co., 350 Fifth Ave., New York, N. Y.
- Cauthen & Slocum, Inc., 1218 N. Capitol St., Washington 2, D. C.
- Central Brass Mfg. Co., 2950 E. 55th St., Cleveland 4, Ohio
- Central Dyeing Co., 1550 Dickson Ave., Scranton 8, Pa.
- Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
- Century Paper Products Co., 333 N. Francisco, Chicago, Ill.
- Certified Chemical & Equipment Co., 1472 E. 25th St., Cleveland 14, Ohio
- Chace Valve Div., American Laundry Machinery Co., Cincinnati 12, Ohio
- Challenge Marking Tag Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
- Chambers Extractor Co., 201 Embarcadero, San Francisco 11, Cal.
- Champion Implement Corp., 45 W. 45th St., New York 19, N. Y.
- Chandler Machine Co., West St., Ayer, Mass.
- Character Sales & Service Co., 245 Seventh Ave., New York, N. Y.
- Charlotte Leather Belting Co., 314-B E. Sixth St., Charlotte 1, N. C.
- Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.
- Chatillon, John, & Sons, 85 Cliff St., New York 7, N. Y.
- Checking System Co., 515 S. Walker St., Columbia, S. C.
- Chek Products, Inc., 31 Nassau Pl., East Orange, N. J.
- Chelco Fan & Blower Co., 1206 Grove St., Irvington 11, N. J.
- Chevin, Samuel, Co., Inc., 2721 N. Halsted St., Chicago 4, Ill.
- Chvrolet Motor Div., General Motors Corp., Detroit 2, Mich.
- Chicago Automatic Stoker Co., 14 N. Clinton St., Chicago 6, Ill.
- Chicago Dryer Co., 2210 N. Pulaski Rd., Chicago 39, Ill.
- Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill.
- Chicago Pearl Milling Co., 216 W. Jackson Blvd., Chicago 6, Ill.
- Chicago Pump Co., 2300 Wolfram St., Chicago 18, Ill.
- Chico Mfg. Co., Inc., 808 Beecher St., Indianapolis 7, Ind.
- Chisholm-Moore Hoist Corp., Fremont Ave., Tonawanda, N. Y.
- Christina, E. L. Co., Inc., 8255 Compton Ave., Los Angeles 1, Cal.
- Chrysler Corp., Airtemp Div., 1119 Leo St., Dayton, Ohio
- Chrysler Corp., Amples Div., 6501 Harper Ave., Detroit 31, Mich.
- Cidez Corp., 85 Franklin St., Jersey City 7, N. J.
- Circle Pleating & Pattern Co., Ltd., 265 W. 40th St., New York 18, N. Y.
- Cissell, W. M. Mfg. Co., Inc., P. O. Box 1143, 831 S. First St., Louisville 1, Ky.
- Cisek, Sidney A., 12-21 50th Ave., Long Island City 2, N. Y.
- Clarage Fan Co., North & Porter Sts., Kalamazoo 16, Mich.
- Clark Mfg. Co., 1830 E. 38th St., Cleveland 14, Ohio
- Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Cal.
- Cleaners Hanger Co., 18140 James Couzens Highway, Detroit 35, Mich.
- Cleaners Sales & Equipment Corp., 201 Washington St., New York 7, N. Y.
- Cleaners Specialties Supplies Co., 6615 N. Fairfield Ave., Chicago 45, Ill.
- Clear View Packaging Co., 2636 S. Michigan Ave., Chicago 6, Ill.
- Cleaver-Brooks Co., 358 E. Keesee Ave., Milwaukee 13, Wisc.
- Cleveland Garment Hanger Co., 8205 Madison Ave., Cleveland 2, Ohio
- Cleveland Rug Cleaning Machinery Co., 5618 Hamlet Ave., Cleveland 4, Ohio
- Clinton Foods, Inc., Clinton, Iowa
- Clinton Products Co., Clinton 7, Mich.
- Clippert Belt Lacer Co., 974 Front Ave., N. W., Grand Rapids 2, Mich.
- Clopay Corp., Clopay Sq., Cincinnati 14, Ohio
- Cloves Chemical Co., 850 42nd Ave., Oakland 1, Cal.
- Coates Electric Mfg. Co., 3610 First Ave. S., Seattle 4, Wash.
- Cochrane Corp., 3101 N. 17th St., Philadelphia 2, Pa.
- Coe Mfg. Co., Bank St., Painesville, Ohio
- Coffman Mfg. Corp., 531 Milwaukee Ave., Chicago 22, Ill.
- Colson, Abe, & Son, 1721 Ft. Myer Dr., Arlington, Va.
- Colgate-Palmolive-Peet Co., 105 Hudson St., Jersey City 2, N. J.
- Colgar Smooth Sales Co., 233 Madison Ave., New York 16, N. Y.
- College Chemical Co., 16 Brooks Pk., Medford, Mass.
- Colman Rubber Co., Ravena, Ohio
- Colorado Text & Avening Co., 1642 Lawrence St., Denver 2, Colo.
- Colson Corp., Cedar St., Elyria, Ohio
- Columbia Appliance Corp., 8-10 43rd Ave., Long Island City 1, N. Y.
- Columbia Boiler Co., Pottstown, Pa.
- Columbia Laundry Machinery Co., 1313-19 E. 15th St., Kansas City, Mo.
- Columbia Needlework Supply Co., Gearhart Runner Knitter Co., 411 Sixth St., N. E., Washington 2, D. C.
- Columbia Sewing Machine Corp., 129-151 W. 22nd St., New York 3, N. Y.
- Columbia Southern Chemical Corp., Fifth Ave. at Bellefield, Pittsburgh 13, Pa.
- Columbus Business, 7651 N. E. Second Ave., Miami, Fla.
- Combustion Control Corp., 77 Broadway, Cambridge 42, Mass.
- Combustion Engineering Co., Inc., 800 Madison Ave., New York, N. Y.
- Comer Co., 308 Ivy St., N. E., Atlanta 1, Ga.
- Commercial Dye Works, 14 Roswell St., Rosbury 19, Mass.
- Commercial Investment Trust, Inc., 1 Park Ave., New York 16, N. Y.
- Commercial Tag Co., 187 Vanderbilt Ave., Brooklyn 5, N. Y.
- Conco Engineering Works, Div. H. D. Conkey & Co., 1900 Orange St., Mendota, Ill.
- Concord Chemical Co., Moorestown, N. J.
- Continental Car-Na-Vap Corp., Box 344, Brazil, Ind.
- Cook Machinery Sales Co., 2220 Main St., Dallas, Texas
- Cook's, Adam, Sons, Inc., 5 N. Stiles St., Linden, N. J.
- Coolidge, John E., Co., 1722 W. Santa Barbara Blvd., Los Angeles 37, Cal.
- Cooper-Bessemer Corp., Mt. Vernon, Ohio
- Cooper, H. P. Co., 508-10 S. Green St., Chicago 7, Ill.
- Cooper, T. C., & Co., Inc., Cedar & Venango Sts., Philadelphia 6, Pa.
- Cornell Belting Co., 440 N. Wells St., Chicago 10, Ill.
- Co-Two, U. S. Highway No. 1, Newark 1, N. J.
- Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio
- Cramer, R. W., & Co., Inc., Centerbrook, Conn.
- Croase Co., 836 S. Michigan Ave., Chicago 8, Ill.
- Cravenette Co., U. S. A., Eighth & Madison Sts., Hoboken, N. J.
- Crecent Belt Fastener Co., 247 Park Ave., New York 17, N. Y.
- Credwood Co., 360 E. Grand Ave., Chicago 11, Ill.
- Crocker-Wheeler Electric Mfg. Co., Div. Joshua Ready Iron Works, Aurora, N. J.
- Crosby Steam Gauge & Valve Co., 10 Roland St., Boston 29, Mass.
- Crosland Mfg. Co., Inc., 2294 Albion St., Toledo 6, Ohio
- Crown Mfg. Co., 1025 N. Sixth St., St. Louis 1, Mo.
- Crucible Steel Co. of America, Henry W. Oliver Building, Pittsburgh 30, Pa.
- Crystallite Co., Inc., 283 McKinley Ave., East Orange, N. J.
- Culligan Zeolite Co., 1810 Shermer Ave., Northbrook, Ill.
- Cummings-Landau Laundry Machinery Co., Inc., 305 Ten Eyck St., Brooklyn 6, N. Y.
- Cuno Engineering Corp., 80 S. Vine St., Meriden, Conn.

Curry, J. W., Co., 2615 Cummins St., Cincinnati 25, Ohio  
 Custom Engineering Co., 9138 W. Slauson Ave., Los Angeles 43, Cal.  
 Custom Fur Service, Inc., Second Ave. at 109th St., Troy, N. Y.  
 Cudler-Hammer, Inc., 315 N. 12th St., Milwaukee 1, Wisc.  
 Cryotherm Corp., 157 E. First St., Oswego, N. Y.

## D

Dahlberg Machinery Co., 918-26 E. Superior St., Duluth, Minn.  
 Daniels, C. R., Inc., Daniels, Md.  
 Darko "Sales Thought a Day" Co., 2659 Shelby St., Indianapolis 3, Ind.  
 Darnell Corp., Ltd., 3517 E. 11th St., Long Beach 4, Cal.  
 Davies-Young Soap Co., Box 995, Dayton 1, Ohio  
 Davis Emergency Equipment Co., Inc., 45 Hallock St., Newark 4, N. J.  
 Davis Engineering Corp., 1064 E. Grand St., Elizabeth 4, N. J.  
 Davis Mfg. Co., 7053 S. South Chicago, Chicago 37, Ill.  
 Davis, K. H. Mfg. Corp., 2415 E. 23rd St., Los Angeles 11, Cal.  
 Davis Mills Inc., 211 Grant Ave., East Newark, N. J.  
 Davison Chemical Co., 101 N. Charles St., Baltimore 3, Md.  
 Davis Regulator Co., 2663 W. 25th Pl., Chicago 8, Ill.  
 Davis Specialties, Inc., 618 S. Kolmar Ave., Chicago 24, Ill.  
 Davis-Weil Mfg. Co., Inc., 931 S. Front St., Memphis 3, Tenn.  
 Dean Hill Pump Co., 4000 E. 16th St., Indianapolis 7, Ind.  
 DeBothehart Fans Div., American Machine & Metals, Inc., East Moline, Ill.  
 Decatur Pump Co., 2750 Nelson Pk. Rd., Decatur 70, Ill.  
 Deep Rock Oil Corp., 155 N. Clark St., Chicago 90, Ill.  
 Defender Instrument & Regulator Co., 815 Clark Ave., St. Louis 2, Mo.  
 Dejar Electric Works, 124 Bleeker St., New York 12, N. Y.  
 Dejan Co., 421 E. Fourth South St., Salt Lake City 2, Utah  
 DeLaval Steam Turbine Co., 853 Nottingham Way, Trenton 2, N. J.  
 Delray School of Spotting Instruction, 3029 Fairfield Ave., Cincinnati, Ohio  
 Denning Co., Salem, Ohio  
 Dennison Mfg. Co., 300 Howard St., Framingham, Mass.  
 Denominator Co., 261 Broadway, New York, N. Y.  
 D'Este Div., American Chain & Cable Co., Inc., Tulpehocken St., Reading, Pa.  
 Detecto Scales, Inc., 540 Park Ave., Brooklyn 5, N. Y.  
 Detrex Watchclock Corp., 76 Varick St., New York 13, N. Y.  
 Detrex Corp., Box 501, Detroit 32, Mich.  
 Detroit Belt Lacer Co., 3951 A St., Detroit 16, Mich.  
 Detroit Stoker Co., General Motors Bldg., Detroit, Mich.  
 Devver Co., 2000-2012 Clark St., Racine, Wisc.  
 DeVilbiss Co., 300 Phillips Ave., Toledo 1, Ohio  
 Devoe & Reynolds Co., Inc., 44th St. & First Ave., New York, N. Y.  
 Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio  
 Diamond Chain Co., Inc., 402 Kentucky Ave., Dept. 442, Indianapolis 7, Ind.  
 Diamond Metal Products Co., 406 Market St., St. Louis 2, Mo.  
 Diamond T Motor Co., 4401 W. 26th St., Chicago 23, Ill.  
 Decalite Div., Great Lakes Carbon Corp., 18 E. 48th St., New York 17, N. Y.  
 Dico Co., 200 S. W. 16th St., Des Moines 5, Iowa  
 Diehl Mfg. Co., Electrical Div., Singer Mfg. Co., 1136 Findern Ave., Somerville, N. J.  
 Diem & Wing Paper Co., Gilbert Ave., Viaduct, Cincinnati 2, Ohio  
 Display Features, 3811 Plumstead Ave., Drexel Hill, Pa.  
 Divco Corp., 22000 Hoover Rd., P. O. Box 3807, Park Grove Station, Detroit 5, Mich.  
 Dixie Hanger Co., 1000 Chartres St., New Orleans 16, La.  
 Dizo Co., 225 River Rd., Garfield, N. J.  
 Dixon Boiler Works, 1625 Naud St., Los Angeles, Cal.  
 Doctor Boiler, Inc., 4316 Main St., Dallas, Texas  
 Dodge Div., Chrysler Corp., 7900 Jos. Campeau Ave., Detroit, Mich.  
 Donnell Co., P. O. Box 84, St. Joseph, Mich.  
 Doran Bros., Inc., 30 Shelter Rock Rd., Danbury, Conn.  
 Dover Stamping Co., 80 Federal St., Boston 10, Mass.

Dow Chemical Co., Midland, Mich.  
 Dravo Corp., 900 Penn Ave., Pittsburgh 22, Pa.  
 Dressel Mfg. Div., Dresser Industries, Inc., 41 Fisher Ave., Bradford, Pa.  
 Drew, E. F., & Co., Inc., 15 E. 26th St., New York 10, N. Y.  
 Driair Process Machinery Co., Penn & Ruau St., Philadelphia 24, Pa.  
 Drico Industrial Corp., 29 Broadway, New York 6, N. Y.  
 Driscoll Co., 251 Causeway St., Boston 14, Mass.  
 Dryco Corp., 625 S. Kolmar Ave., Chicago 24, Ill.  
 Dublin Collar Co., 200 Worth St., New York 13, N. Y.  
 Duffa Dye Works, 2213 County St., Portsmouth, Va.  
 Dunaway & Co., H. D., P. O. Box 4991, Atlanta 2, Ga.  
 Du Pont de Nemours, E. I., & Co., Inc., Wilmington 98, Del.  
 Durable Fibre Sample Case Co., 207 Wooster St., New York 12, N. Y.  
 Drex Chemical Co., 140 India St., Providence 3, R. I.

## E

Eagle Belting & Leather Co., 1401 Central Park, Cincinnati 14, Ohio  
 Eastern Cyclone Conveyor System, Inc., 876 Van Houten Ave., Clifton, N. J.  
 Eaton Chemical & Dyestuff Co., 1490 Franklin St., Detroit 7, Mich.  
 Ebeo Mfg. Co., 401 W. Town St., Columbus, Ohio  
 Eckert-Richmond Co., 206-08 W. 29th St., New York 1, N. Y.  
 Eddy Fuel Engineering Co., 605 S. Main St., Rockford, Ill.  
 Eclipse Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.  
 Economy Hanger Machine & Equipment Co., 4324 N. 37th Ave., San Diego 5, Cal.  
 Economy Specialty Co., 446 Second St., Jersey City 2, N. J.  
 Econo-Pak Register Co., 1337 E. 27th St., Kansas City 8, Mo.  
 Edwards, Vincent, & Co., 342 Madison Ave., New York 17, N. Y.  
 Edward Valves, Inc., Subsidiary Rockwell Mfg. Co., 1200 W. 145th St., East Chicago, Ind.  
 Egan Cotton Mills, 866 Murphy Ave., S.W., Atlanta 4, Ga.  
 Egly Register Co., 429 E. Monument Ave., Dayton 2, Ohio  
 Electric Auto-Lite Co., Instrument & Gauge Div., Champlain St., Toledo 1, Ohio  
 Electric City Dyeing Co., 509 Glenn St., Scranton, Pa.  
 Electric Steam Boiler Sales, Div. Wolf Co., Wolf Ave., Chambersburg, Pa.  
 Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa.  
 Electro Chemical Engineering Co., Inc., P. O. Box 27, Bremen Station, St. Louis 7, Mo.  
 Electric Lift, Inc., 30 Church St., New York 7, N. Y.  
 Elgin Softener Corp., 150 N. Grove Ave., Elgin, Ill.  
 Elliott Co., Jeannette, Pa.  
 Elliott Press, Inc., Robert, 345 Ludlow St., Stamford, Conn.  
 Ellis Drier Co., 2444 N. Crawford Ave., Chicago 39, Ill.  
 Emery Industries, Inc., 6801 Mariemont Ave., Cincinnati 2, Ohio  
 Empire Cleaning & Dyeing Works, 622 Hollenbeck St., Rochester 5, N. Y.  
 Empire Institute of Tailoring, 422 E. Fifth St., Hazleton, Pa.  
 Endriss Chemicals, 940 N. Delaware Ave., Philadelphia 23, Pa.  
 Equitable Paper Bag Co., Inc., 47-02 31st Pl., Long Island City 1, N. Y.  
 Erie City Iron Works, 1550 East Ave., Erie, Pa.  
 Erie Enameling Co., 1920 Woodrow St., Erie, Pa.  
 Ernest F. F. Mfg. Co., 1112 St. Clair Ave., East St. Louis, Ill.  
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 6, Wisc.  
 E. N. Sutton Co., 892 Broadway, New York 3, N. Y.  
 Everlasting Valve Co., 49 Fisk St., Jersey City 5, N. J.  
 Ewitt, H. & Sons, Inc., Green Island, N. Y.  
 Excelsior Machinery Co., 1452 Randolph St., Detroit 26, Mich.

## F

Fabric Laundry & Dry Cleaning Machinery Corp., 192 Banker St., Brooklyn 22, N. Y.  
 Fabric Co., 8342 S. Prairie Ave., Chicago 19, Ill.  
 Fairbair Bearing Co., New Britain, Conn.  
 Fairbanks Co., 393 Lafayette St., New York 3, N. Y.  
 Fairbanks, Morse & Co., Fairbanks Morse Bldg., 600 S. Michigan Ave., Chicago 5, Ill.  
 Fairfield Laboratories, Plainfield, N. J.  
 Fastik Co., 1106 W. Erie St., Chicago 22, Ill.

Federal Motor Truck Co., 5780 Federal Ave., Detroit, Mich.  
 Federal Textile Corp., East & Water Sts., New Haven, Conn.  
 Fenton Label Co., 508-512 Race St., Philadelphia 8, Pa.  
 Fielden Instrument Corp., 2920 N. Fourth St., Philadelphia, Pa.  
 Filtrill Corp., 727 W. Seventh St., Los Angeles 17, Cal.  
 Firefly Asbestos Products Co., 175 Bergen St., Newark 3, N. J.  
 Fischer & Porter Co., Hatboro, Pa.  
 Fisher Dye Works, 1813 Emanuel St., Houston, Texas  
 Fiske Bros. Refining Co., Lubriplate Div., 129 Lockwood St., Newark 5, N. J.  
 Flash-Fast Div., Louis Marks, Inc., 78 N. Summit St., Akron, Ohio  
 Fleischer Mills, Inc., 316 E. Fifth St., Cincinnati 2, Ohio  
 Fletcher Works, 213 Glenwood Ave., Philadelphia 40, Pa.  
 Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.  
 Flynn & Emrich Co., 301 Holliday St., Baltimore 2, Md.  
 Ford Div., Ford Motor Co., 3000 Schaeffer Rd., Dearborn, Mich.  
 Ford Tank Maintenance Co., Inc., 715 E. 138th St., New York 54, N. Y.  
 Forse Equipment Corp., 700 W. 14th St., Anderson, Ind.  
 Foster-Stephens, Inc., 310 S. Christians Ave., Chicago 24, Ill.  
 Foxboro Co., 38 Neponset Ave., Foxboro, Mass.  
 Franklin Mfg. Co., 2615 E. Franklin Ave., Minneapolis 6, Minn.  
 Franklin Research Co., 5134 Lancaster Ave., Philadelphia 31, Pa.  
 Franklin Textile Mills, 120 Franklin St., Franklin Park, Mass.  
 Free-Bir-Pac, Inc., 876 Van Houten Ave., Clifton, N. J.  
 Fremont Rubber Co., 317 McPherson Highway, Fremont, Ohio  
 French Textile Co., 432 Ave. A., Rochester, N. Y.  
 Freund, Freund & Co., Inc., 102 Franklin St., New York 13, N. Y.  
 Freyberg Bros.-Strauss, Inc., 419 Fourth Ave., New York 16, N. Y.  
 Freightair Div., General Motors Corp., 300 Taylor St., Dayton 1, Ohio  
 Fry Bros. Co., 1728-46 Dana Ave., Cincinnati 7, Ohio  
 Fry, E. B., & Son, Wilton, N. H.  
 Fullo Corp., 2358 N. Seeley Ave., Chicago 47, Ill.  
 Fulton Boiler Works, Inc., Box 228, Fulton, N. Y.  
 Fumol Corp., 49-65 Van Dam St., Long Island City 1, N. Y.  
 Furx Rejuvenating Corp., 258 E. Third St., Mt. Vernon, N. Y.

## G

G & G Chemical Co., 704 W. Broadway, Hope-well, Va.  
 GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.  
 Gardner-Deaver Co., Gardner Dr., Quincy, Ill.  
 Gardner Machinery Corp., N. Andriell Terrace & Seaboard Railway, Charlotte 1, N. C.  
 Garment Dyers Guild, 818 Dorman St., Indianapolis 2, Ind.  
 Garment Finishing Equipment Corp., P. O. Box 246, Sharon, Pa.  
 Garment Hanger Co., 2624 Geraldine St., Los Angeles 11, Cal.  
 Gasway Corp., 6463 N. Ravenswood Ave., Chicago 26, Ill.  
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
 Geller, L. & Son, 990 Myrtle Ave., Brooklyn 6, N. Y.  
 General Aniline & Film Corp., Special Products Sales Div., 444 Madison Ave., New York 22, N. Y.  
 General Boiler Equipment Corp., 2651-53 Gravois St., St. Louis 18, Mo.  
 General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.  
 General Cleaners Products Co., 410 N. Kedzie Ave., Chicago 12, Ill.  
 General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich.  
 General Dyeing Co., 818 Dorman St., Indianapolis 2, Ind.  
 General Dyestuff Corp., 435 Hudson St., New York 14, N. Y.  
 General Electric Co., 1 River Rd., Schenectady 5, N. Y.  
 General Electric Co., Air Conditioning Dept., 5 Lawrence St., Bloomfield, N. J.  
 General Electric Co., Lamp Dept., Nela Pk., Cleveland, Ohio  
 General Luminescent Corp., 732 S. Federal St., Chicago 5, Ill.  
 General Machine Supply Co., 933 Market St., Camden, N. J.

**General Motors Corp.**, General Motors Bldg., Detroit 2, Mich.  
**General Pacific Corp.**, 1501 E. Washington Blvd., Los Angeles 21, Cal.  
**Germaclean, Inc.**, 431 Niagara St., Buffalo 1, N. Y.  
**Germain's Gernico Products Div.**, 747 Terminal St., Los Angeles 21, Cal.  
**Gifford, H. M., Mfg. Co.**, 2750 B St., Philadelphia 34, Pa.  
**Gilbert & Barker Mfg. Co.**, Cold Springs Ave., West Springfield, Mass.  
**Gilmer, L. H. Co.**, Div. U. S. Rubber Co., Tacoma, Philadelphia 35, Pa.  
**Glenzip Co.**, 218 N. Clinton St., Chicago 6, Ill.  
**Glidden Co.**, 11001 Madison Ave., Cleveland 2, Ohio  
**Globe Products Co., Inc.**, 1811 Indiana Ave., Chicago 16, Ill.  
**Globe Ticket Co.**, of New England, 620 Commonwealth Ave., Boston 15, Mass.  
**Globe Weaving Co.**, 17 N. State St., Chicago, Ill.  
**Glover, Bill, Inc.**, 5204 Truman Rd., Kansas City 1, Mo.  
**Golden-Anderson Valve Specialty Co.**, Keenan Bldg., Pittsburgh 22, Pa.  
**Goldman Pressing Machine Corp.**, 400 W. Broadway, New York 12, N. Y.  
**Goodman, A. J. Co.**, 6211 Cottage Grove Ave., Chicago 37, Ill.  
**Goodrich, B. F. Co.**, 500 S. Main St., Akron 18, Ohio  
**Goodyear Tire & Rubber Co.**, Akron, Ohio  
**Gorton Heating Corp.**, Cranford, N. J.  
**Goulds Pumps, Inc.**, 300 Fall St., Seneca Falls, N. Y.  
**Grafton & Knight Co.**, 871 Franklin St., Worcester 4, Mass.  
**Graver Tank & Mfg. Co., Inc.**, 4809 Tod Ave., East Chicago, Ind.  
**Greaves Machine Tool Co.**, 2001-17 Eastern Ave., Cincinnati 2, Ohio  
**Green, A. F. Fire Brick Co.**, Mexico, Mo.  
**Greenville Chemical Co.**, W. Washington St., Greenville, S. C.  
**Greenwood Textile Co.**, 390 Fenn St., Pittsfield, Mass.  
**Greif Bros. Co.**, 2000 W. 25th St., Cleveland 13, Ohio  
**Grill, Samuel, Inc.**, 412 Eighth Ave., New York 1, N. Y.  
**Crimes Co.**, 2900 Main St., Dallas 1, Texas  
**Gronauer, M. H. Co.**, 11 Nettleton, Memphis 2, Tenn.  
**Gross Machinery Co., Inc.**, 179-191 Halbert St., Buffalo 14, N. Y.  
**Gulf Oil Corp.-Gulf Refining Co.**, 3800 Gulf Bldg., Pittsburgh 30, Pa.  
**Gummed Tape & Devices Co.**, 1318-20 60th St., Brooklyn 19, N. Y.  
**Gustin-Kramer Co.**, 74-80 Cummington St., Boston 15, Mass.  
**Guth, Edwin F. Co.**, 2615 Washington Ave., St. Louis 3, Mo.

## H

**Hachik Bleach Co.**, Wynnfield Ave., Philadelphia 31, Pa.  
**Haerle, Walter Co.**, 2840 Fourth Ave., S., Minneapolis 8, Minn.  
**Hagan Corp.**, 323 Fourth Ave., Pittsburgh 22, Pa.  
**Hager Bros.**, 321 N. Water St., Rockford, Ill.  
**Hall, Amos H. & Sons**, 5500 N. Water St., Philadelphia 20, Pa.  
**Hamilton Caster & Mfg. Co.**, 1101 Lincoln Ave., Hamilton, Ohio  
**Hamilton Copper & Brass Works, Inc.**, 1101 Lincoln Ave., Hamilton, Ohio  
**Hammond-Dahl Co.**, 247 Richmond St., Providence 3, R. I.  
**Hammond Laundry-Cleaning Machinery Co.**, Hammond Bldg., Waco, Texas  
**Handy Bug Holder & Spreader Co.**, Vine St. & De Camp Ave., Cincinnati 15, Ohio  
**Handy Specialties**, 9159 W. Pico Blvd., Los Angeles 35, Cal.  
**Hanscom, H. F. & Co.**, 38 Hospital St., Providence 3, R. I.  
**Hapman-Dutton Co.**, Dutton Boiler Div., 630 Gibson St., Kalamazoo 6, Mich.  
**Hardin, J. L. Co., Inc.**, 1263 Atlantic Ave., Brooklyn 16, N. Y.  
**Haring & Stephens Co.**, 635 McBride Ave., Paterson, N. J.  
**Harrison, Robert D., Inc.**, 566 E. Warren Ave., Detroit 2, Mich.  
**Hatters Supply House, Inc.**, 404 S. Wells St., Chicago 7, Ill.  
**Hauser-Stander Tank Co.**, 4838 Spring Grove Ave., Cincinnati 32, Ohio  
**Haynes Stellite Co.**, Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.  
**Hays Corp.**, 742 E. Eighth St., Michigan City, Ind.  
**Healy-Huff Co.**, 2255 University Ave., St. Paul 4, Minn.  
**Heinemann Electric Co.**, Pennsylvania Ave. & Plum St., Trenton 2, N. J.

**Heller, B. & Co.**, 3925 Calumet Ave., Chicago 13, Ill.  
**Helpline, Inc.**, 37-18 Northern Blvd., Long Island City 1, N. Y.  
**Henric Laundry Machinery Co.**, 11 Henri St., Metastat Station, Boston 26, Mass.  
**Henry Hanger Co. of America**, 450 Seventh Ave., New York 1, N. Y.  
**Hercules Filter Corp.**, 204 21st Ave., Paterson, N. J.  
**Hercules Laundry Machinery Co., Inc.**, 132-36 W. 124th St., New York 27, N. Y.  
**Hercules Powder Co.**, 952 King St., Wilmington, Del.  
**Herman Body Co.**, 4400 Clayton Ave., St. Louis 10, Mo.  
**Hettrick Mfg. Co.**, 1401 Summit St., Toledo 1, Ohio  
**High Chemical Co.**, Chemical Specialties Div., 1760 N. Howard St., Philadelphia 22, Pa.  
**Hild Floor Machine Co.**, 740 W. Washington Blvd., Chicago 6, Ill.  
**Hinx Needle Co.**, 10018 S. Rhodes Ave., Chicago 26, Ill.  
**Hirsch, Leo H. & Co.**, 380 Second Ave., New York 10, N. Y.  
**Hodge, Farwell & Co.**, 1934 Sterling Ave., Elkhart, Ind.  
**Hollingsworth & Vose Co.**, 112 Washington St., East Walpole, Mass.  
**Holt Mfg. Co.**, 851-81 20th St., Oakland 12, Cal.  
**Hood Chemical Co., Inc.**, Crescent Div., 1937 S. Broad St., Philadelphia 48, Pa.  
**Hood Products Co.**, 6543 S. Laramie Ave., Chicago 38, Ill.  
**Hooker Electrochemical Co.**, Niagara Falls, N. Y.  
**Hooper, Wm. E. & Sons**, Woodberry, Baltimore, Md.  
**Hope Webbing Co.**, Providence 1, R. I.  
**Hopkins Equipment Co.**, 22 Maple Ave., Hatfield, Pa.  
**Horn, A. C. Co., Inc.**, 43-36 10th St., Long Island City 1, N. Y.  
**Houghton, E. F. & Co.**, 303 W. Lehigh Ave., Philadelphia 33, Pa.  
**Houston of Plastics Div.**, Neon Sign Co., Inc., N. 14th at Taylor, Herrin, Ill.  
**Howe Paper Corp.**, 670 Young St., Tonawanda, N. Y.  
**Howe Scale Co.**, Rutland, Vt.  
**Hoyt Mfg. Corp.**, 994 Jefferson St., Fall River, Mass.  
**Hub Printing Services**, 320 N. Euclid Ave., Oak Park, Ill.  
**Huebner Co.**, 601 Main St., Keokuk, Iowa  
**Huebsch Div., American Laundry Machinery Co.**, 3775 N. Holton St., Milwaukee 1, Wisc.  
**Hummel & Downing Co.**, 1514 E. Thomas Ave., Milwaukee 1, Wisc.  
**Hungerford & Terry, Inc.**, 226 Atlantic Ave., Clayton, N. J.  
**Huntington Laboratories, Inc.**, 900-970 E. Tipton St., Huntington, Ind.  
**Huron Milling Co.**, 9 Park Pl., New York 7, N. Y.  
**Hygrad, Buffon & Supply Co.**, 19 W. 34th St., New York 1, N. Y.

## I

**Ideal Industries, Inc.**, Sycamore, Ill.  
**Ideal Lighting Co.**, 2219 63rd St., Kenosha, Wisc.  
**Ideal Stencil Machine Co.**, 102 Iowa Ave., Belleville, Ill.  
**Ilg Electric Ventilating Co.**, 2850 N. Crawford Park, Ill.  
**Illinois Laundry Machinery Mfg. Co.**, 3128 W. Lake St., Chicago, Ill.  
**Imperial Dye House**, 3421 Tulane Ave., New Orleans 19, La.  
**Imperial Laundry Machinery Co.**, 245 Huron St., Brooklyn 22, N. Y.  
**Indiana Dye House**, 122-126 State St., Hammond, Ind.  
**Indiana Mfg. Co.**, 1900 E. Main St., New Albany, Ind.  
**Industrial Equipment Co.**, 361 N. Ada St., Chicago 17, Ill.  
**Industrial Grain Products, Ltd.**, 741 Talbot St., London, Ontario, Canada  
**Industrial Laundry Machinery Co., Inc.**, Morgan Ave. cor. Stagg St., Brooklyn 6, N. Y.  
**Industrial Products Co.**, 2839 N. Fourth St., Philadelphia 33, Pa.  
**Inflico, Inc.**, 325 W. 25th Pl., Chicago 16, Ill.  
**International Hand Co.**, 11 Broadway, New York 4, N. Y.  
**Ink-O Products Co.**, 5101 Monte Vista St., Los Angeles 42, Cal.  
**Inco, Speciden & Co.**, 117 Liberty St., New York 6, N. Y.  
**International Boiler Works Co.**, Birch St., East Stroudsburg, Pa.  
**International Brewster Co.**, 180 N. Michigan Ave., Chicago, Ill.  
**International Metal Polish Co.**, 1910 Quill St., Indianapolis 7, Ind.  
**International Nickel Co., Inc.**, 67 Wall St., New York 5, N. Y.  
**International Paper Co.**, Southern Kraft Div., 220 East 42nd St., New York 17, N. Y.  
**International Salt Co.**, Scranton 2, Pa.  
**International Steel Wool Corp.**, 2205 Park Rd., Springfield, Ohio

**International Tag & Salesbook Co.**, 319 N. Whipple St., Chicago 12, Ill.  
**International Ticket Co.**, 50 Grafton Ave., Newark 4, N. J.  
**International Wire Hanger Mfg. Co.**, 8128 W. Lake St., Chicago 12, Ill.  
**Inweaving Co. of America**, 1505 11th St., Wichita Falls, Texas  
**Iowa Soap Co.**, 816 Valley St., Burlington, Iowa  
**Irons Div., Speed Queney Corp.**, Algonquin, Ill.  
**Iron Fireman Mfg. Co.**, 3170 W. 100th St., Cleveland 11, Ohio

## J

**J & L Mfg. Co.**, 21 Castle Ave., Bridgeport 3, Conn.  
**Jacobson, Lawrence, Dye Works, Inc.**, Oxford Ave., Summerdale & Comly Sts., Philadelphia 24, Pa.  
**Jarvis & Jarvis, Inc.**, S. Main St., Palmer, Mass.  
**Jasper, T. G. Co.**, 1133 Broadway, New York 10, N. Y.  
**Jay-Dex, Inc.**, 946 Kenmore Blvd., Akron 14, Ohio  
**Jefferson Island Salt Co., Inc.**, Columbia Bldg., Louisville 8, Ky.  
**Jefferson Wood Working Co.**, 14th & Hill Sts., Louisville 10, Ky.  
**Jensen Mfg. Co.**, Broad St. & Hyton Rd., Palmyra, N. J.  
**Jercleydon, Inc.**, P. O. Box 759, Miami Beach 39, Fla.  
**John-Manville**, 22 E. 40th St., New York 16, N. Y.  
**Johnson Chemical Industries, Inc.**, 99 Mellor Ave., Baltimore 28, Md.  
**Johnson Corp.**, 835 Wood St., Three Rivers, Mich.  
**Johnson Metal Hose, Inc.**, 226 Mill St., Waterbury 88, Conn.  
**Johnson, S. C. & Son, Inc.**, Racine, Wisc.  
**Johnson, W. F. Products Co.**, 309 Joliet Ave., San Antonio 9, Texas  
**Juston Bros., Inc.**, 100 Pine St., Ferrysburg 1, Mich.  
**Johnston & Jennings Co.**, 877 Addison Rd., Cleveland 14, Ohio  
**Jones, C. Walker Co.**, 6135 N. Lambert, Philadelphia 38, Pa.

## K

**Kamen Soap Products Co., Inc.**, 233 Broadway, New York 7, N. Y.  
**Kaplan's, David G., Cleaners & Dyers Fur Service**, 115 W. 30th St., New York 11, N. Y.  
**Karrick Co.**, 2100 McLendon Ave., N. E., Atlanta, Ga.  
**Kasco Co.**, 27-08 18th St., Long Island City, N. Y.  
**Kato Engineering Co.**, 122 Spruce St., Mankato, Minn.  
**Katz Bag Co.**, 6243 N. Western Ave., Chicago 45, Ill.  
**Kay & MacDonald, Inc.**, 88-96 Franklin Ave., West Orange, N. J.  
**Keckley, O. C. Co.**, 400 W. Madison St., Chicago 6, Ill.  
**Keeler, E. Co.**, 238 West St., Williamsport 3, Pa.  
**Keever Starch Co.**, 538 E. Town St., Columbus 15, Ohio  
**Kellie Products, Inc.**, P. O. Box 2917, Terminal Annex Station, Los Angeles 54, Cal.  
**Kelley Iron Works**, 801 W. First St., Charlotte, N. C.  
**Kelmaker Mfg. Co.**, 311 Sixth Ave., Rochelle, Ill.  
**Kelvinator Div., Nash-Kelvinator Corp.**, 14250 Plymouth Rd., Detroit, Mich.  
**Kem Laboratories**, 101 E. 144th St., Bronx 51, N. Y.  
**Kemick Corp.**, Div. of Tobin-Halpert, Inc., 254 Third St., Brooklyn 15, N. Y.  
**Kennedy Car Liner & Bag Co.**, Modell & Prospect Sts., Shelbyville, Ind.  
**Kennedy Products Co.**, 4125 Orchard Lane, Cincinnati 36, Ohio  
**Kenney Softener & Filter Co.**, 3322-24 Monroe Ave., Chicago 45, Ill.  
**Kentucky Box & Truck Co.**, Fourth & Alvasia Sts. (P. O. Box 463), Henderson, Ky.  
**Kewanee Boiler Corp.**, Franklin St. & O Tracks, Kewanee, Ill.  
**Keyes-Davis Co.**, 110 14th St., Battle Creek, Mich.  
**Keystone Aniline & Chemical Co., Inc.**, 321 N. Loomis St. (1400 W.), Chicago 7, Ill.  
**Keystone Laundry Machinery Co.**, 413 N. Oswego St., Chicago 24, Ill.  
**Keystone Tag Co.**, West Chester, Pa.  
**Key-Tag Checking System Co.**, 6509 Hough Ave., Cleveland 3, Ohio  
**Kiddle, Walter & Co., Inc.**, 675 Main St., Belleville 9, N. J.  
**Kimball, A. Co.**, 307 W. Broadway, New York 13, N. Y.  
**Kirard Co.**, 218 Lansdowne Ave., Wayne 1, Pa.  
**Kirk & Blum Mfg. Co.**, 2837 Spring Grove Ave., Cincinnati 25, Ohio

Kirk's Leather Cleaners, 7320 Melrose Ave., Los Angeles 46, Cal.  
 Kisco Boiler & Engineering Co., 2414 De Kalb St., St. Louis 4, Mo.  
 Kleenex, Inc., 1909 50th Pl., N., Birmingham 4, Ala.  
 Kleitnick, L., & Co., 8342 S. Prairie Ave., Chicago 19, Ill.  
 Kliegman Bros., Inc., 76-01 77th Ave., Glendale, Brooklyn 27, N. Y.  
 Klipfel Mfg. Co., 1000 Weller Ave., Hamilton, Ohio  
 Knight, Maurice A., Settlement, Akron 6, Ohio  
 Knitted Paddling Co., 103 Chapman St., Canton, Mass.  
 Kohnstamm, H., & Co., Inc., 83-93 Park Pl., New York 7, N. Y.  
 Kol Master Corp., First & Madison Sts., Oregon 1, Ill.  
 Kran-Mer Corp., 2433-35 N. Third St., Milwaukee 12, Wisc.  
 Kresky Mfg. Co., Inc., 307 Third St., Petaluma, Cal.  
 Krevit, H., & Co., Inc., 11 Albert St., New Haven 11, Conn.  
 Kuehne Chemical Co., 878 Woodruff Lane, Elizabeth, N. J.  
 Kunkle Valve Co., 119 S. Clinton St., Fort Wayne 2, Ind.  
 Kwik Kover Sales Co., 410 N. Kedzie St., Chicago 12, Ill.

## L

Lacide Stoker Co., 4438 Hunt, St. Louis 10, Mo.  
 Laidlaw, W. A., Wire Co., Peoria, Ill.  
 Lally, R., Co., 516 Kedzie St., Evanston, Ill.  
 Lambooy Label & Wrapper Co., cor. Portage & Palmer Sts., Kalamazoo 29F, Mich.  
 Lamson Corp., Blower Div., 459 Lamson St., Syracuse 1, N. Y.  
 Lane, W. T., & Bros., Inc., Prospect St., Poughkeepsie, N. Y.  
 Lauing Bag Specialty Co., 205 Front St., Harvard, Ill.  
 Larick Mfg. Co., 287 Broadway, New York, N. Y.  
 Larton Products Co., Inc., 4234 Third Ave., New York 37, N. Y.  
 Latner, P. M., Mfg. Co., 1411 Ninth St., S.W., Cedar Rapids, Iowa  
 Laundry Chemicals Co., 4538 W. 130th St., Cleveland 11, Ohio  
 Laundry & Dyeing Cleaning Packaging Div., Majestic Paper & Tissue Co., Inc., 155 Imlay St., Brooklyn 31, N. Y.  
 Laurel Co., 129 Grand St., Garfield 2, N. J.  
 Layne & Bowler, Inc., Box 215, Hollywood Station, Memphis 8, Tenn.  
 Le Ann Fine Furs, 311 Collinsville Ave., E. St. Louis, Ill.  
 Leathers, L. M., Sons, 675 Pulaski St., Athens, Georgia  
 Leavitt Machine Co., 10 E. River St., Orange, Mass.  
 Lee Mfg. Co., 453 Taunton Ave., East Providence 14, R. I.  
 Leebaw Mfg. Co., 2525 Market St., Youngstown, Ohio  
 Leaf Bros., Inc., 205 Irving Ave., N., Minneapolis 5, Minn.  
 Leflet, James, & Co., 426 East St., Springfield 99, Ohio  
 Leonard Pressing Machine Co., 1808 English St., High Point, N. C.  
 Leslie Co., 297 Grant Ave., Lyndhurst, N. J.  
 Levy, L., & H., Inc., 31 Greene St., New York 13, N. Y.  
 Lewis, G. B., Co., P. O. Box 377, Watertown, Wisc.  
 Lewis Invisible Stitch Machine Co., 129 W. 22nd St., New York, N. Y.  
 Lewis National Corp., 29 Sleeper St., Boston 10, Mass.  
 Lewis-Shepard Products, Inc., 307 Walnut St., Watertown 72, Mass.  
 Liberty Marking Tag Co., Inc., 27 Hooper St., Brooklyn 11, N. Y.  
 Lincoln Bag Co., Inc., 4200 W. Schubert Ave., (2700 N), Chicago 39, Ill.  
 Lincoln-Hudson Rug Dyers, Inc., 900 Passaic Ave., East Newark, N. J.  
 Lincoln Rug Co., Inc., 83 Springdale Ave., Newark, N. J.  
 Lincoln-Schuetter Floor Machinery Co., Inc., 512 S. Peoria St., Chicago, Ill.  
 Link-Belt Co., 900 W. Pershing Rd., Chicago 9, Ill.  
 Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y.  
 Lion Uniform Co., 209 S. Jefferson, Dayton 2, Ohio  
 Liquid Conditioning Corp., 3101 N. 17th St., Philadelphia 32, Pa.  
 Liquidometer Corp., 39-21 Skillman Ave., Long Island City 1, N. Y.  
 Little Frenchman's Dye Works, 921 N. 25th St., Waco, Texas  
 Little Giant Specialties, 1547 Venice Blvd., Los Angeles 31, Cal.  
 Loeb Dye Works, Inc., Roanoke, Va.  
 Lockport Boiler & Mfg. Co., Manufacturers Rd., Chattanooga 1, Tenn.

Loroco Industries, Inc., 203 E. Benson St., Reading 15, Ohio  
 Los Angeles Soap Co., 617 E. First St., Los Angeles, Cal.  
 Loudon Machinery Co., 1402 Broadway, Fairfield, Iowa  
 Loyal Textile Machinery Corp., 286 Scholes St., Brooklyn, N. Y.  
 Lubbock Machine Co., Inc., Box 1138, Lubbock, Texas  
 Lucas, Claude E., Associates, 880 E. Colorado, Pasadena, Cal.  
 Lucey Boiler & Mfg. Co., Chattanooga 2, Tenn.  
 Lunkenheimer Co., P. O. Box 360, Annex Station, Cincinnati 14, Ohio  
 Lynch, John P., Co., 1186 Howard St., San Francisco, Cal.

## Mc

McBee Co., 295 Madison Ave., New York, N. Y.  
 McDonnell & Miller, Inc., 3500 N. Spaulding Ave., Chicago 18, Ill.  
 McElmoyl, W. J., Co., 63 Church St., Groverville, N. J.  
 McGrane Bros., 44 Court St., Brooklyn 2, N. Y.  
 McLeay, Walter J., 1105 N. Water St., Milwaukee 2, Wisc.  
 McLeod & Henry Co., Inc., 351 First St., Troy, N. Y.

## M

M. B. Mfg. Co., Inc., 1080 State St., New Haven, Conn.  
 M & B Metal Products Co., 4415 Morris Ave., Birmingham, Ala.  
 Maas, A. R., Chemical Co., 4570 Ardine St., South Gate, Cal.  
 Macdonald Corp., 227 W. 17th St., New York 11, N. Y.  
 Mack Trucks, Inc., 850 Fifth Ave., New York 1, N. Y.  
 Madison Products Co., 105 16th St., Toledo 2, Ohio  
 Magic Re-Weaving Service, 28 W. Second St., Salt Lake City, Utah  
 Magic Textile Weavers, 948 W. McNichols Rd., Detroit 3, Mich.  
 Magla Products, 310-312 Washington St., Newark 2, N. J.  
 Magnus Chemical Co., Inc., South Ave., Carwood, N. J.  
 Majestic Dye House, 3920 W. Armitage Ave., Chicago 47, Ill.  
 Malleable Iron Fittings Co., Branford, Conn.  
 Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.  
 Manitowoc Cotton Goods Mfg. Co., 813 S. Eighth St., Manitowoc, Wisc.  
 Manitowoc Mfg. Div., Manitowoc Shipbuilding Co., 512 16th St., Manitowoc, Wisc.  
 Marion Machine Foundry & Supply Corp., 90 Dayton St., New York, N. Y.  
 Marion Mfg. Co., 473 Stevens, S.W., Atlanta 4, Ga.  
 Market Forge Co., 25 Garvey St., Everett 49, Wash.  
 Market Industries, Inc., 209 Utah St., San Francisco, Cal.  
 Mark-O Corp., 17 W. 60th St., New York 23, N. Y.  
 Mark-Tec Corp., 453 W. 17th St., New York 11, N. Y.  
 Marlow Pumps, Greenwood Ave., Ridgewood, N. Y.  
 Mar-Mak Rug Machinery Mfg. Co., 626 N. Logan Ave., Danville, Ill.  
 Marnon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind.  
 Marsh, Jas. P., Corp., 2073 Southport Ave., Chicago 14, Ill.  
 Marshall Heater Co., 718-26 E. Monument Ave., Marion Equipment Corp., 777 Hertel Ave., Buffalo 7, N. Y.  
 Martin Fan & Blower Co., 4634 W. 21st Pl., Chicago 50, Ill.  
 Marvel Mfg. Co., 113 Live Oak St., San Antonio 3, Texas  
 Marvel Marking Machine Co., 1433 Blake St., Denver, Colo.  
 Mason-Neilas Regulator Co., 1190 Adams St., Boston 24, Mass.  
 Master Machinery Co., Anderson, Ind.  
 Master Products Co., 7000 S. Wentworth Ave., Chicago 21, Ill.  
 Mathieson Chemical Corp., Mathieson Bldg., Baltimore 3, Md.  
 Maxant Button & Supply Co., 117 S. Morgan St., Chicago 7, Ill.  
 Mead, George E., Co., 11240 S. Arroyo Dr., Whittier, Cal.  
 Meers-Kane Ofeldt, Inc. P. O. Box 223, Bridgeport, Pa.

Medalie Mfg. Co., 213 First Ave., N., Minneapolis 1, Minn.  
 Meese, Inc., 1948 Madison St., Madison, Ind.  
 Mee Mfg. Co., 2057 Reading Rd., Cincinnati 2, Ohio  
 Memphis Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.  
 Menasha Wood Split Pulley Co., 674 Tayco St., Menasha, Wisc.  
 Mender Corp., 2300 Payne Ave., Cleveland 14, Ohio  
 Merchants Chemical Co., Inc., 60 E. 42nd St., New York 17, N. Y.  
 Mercury Cleaning Systems, Inc., 549 W. Washington Blvd., Chicago 6, Ill.  
 Merson Products Co., 63 Essex St., Jersey City, N. J.  
 Metalastic Mfg. Corp., 536 Broad St., Glen Rock, N. J.  
 Metropolitan Body Co., 151 Kossuth St., Bridgeport 8, Conn.  
 Mettler, Lee B., Co., 406 S. Main St., Los Angeles 13, Cal.  
 Mexico Refractories Co., Love & Cole Sts., Mexico, Mo.  
 Meyercood Co., 5323 W. Lake St., Chicago 44, Ill.  
 Midland Color & Chemical Co., 15 Greene St., Jersey City 2, N. J.  
 Midland Paint & Varnish Co., 9123 Reno Ave., Cleveland 5, Ohio  
 Mid-West Laundry Machinery Mfrs., 4325 W. Lincoln Ave., Milwaukee, Wisc.  
 Miller, A. O., Co., 305 E. Third St., Los Angeles 13, Cal.  
 Miller Co., 99 Center, Meriden, Conn.  
 Miller Laundry Machinery Co., 8341 Lyndon Ave., Detroit 21, Mich.  
 Milwaukee Leather Belting Co., 531 N. Broadway, Milwaukee 2, Wisc.  
 Milwaukee Printed String Co., 2804 W. Fond du Lac Ave., Milwaukee 8, Wisc.  
 Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh 8, Pa.  
 Minnesota Chemical Co., 2285 Hampden Ave., St. Paul 4, Minn.  
 Mitchell, J. B., Co., 4916-28 W. Jefferson Blvd., Los Angeles 18, Cal.  
 Modine Mfg. Co., Racine, Wisc.  
 Moeller Instrument Co., Inc., 132nd St. & 69th Ave., Richmond Hill 18, N. Y.  
 Mohawk Rubber Co., 1235 Second Ave., Akron 5, Ohio  
 Mohr, Hedda, Colorado Springs, Colo.  
 Monite Co., Inc., 4903 Delmar Blvd., St. Louis 8, Mo.  
 Monroe Co., Inc., 10703 Quebec Ave., Cleveland 8, Ohio  
 Montpelier Mfg. Co., Montpelier, Ohio  
 Moore Business Forms, Inc., 900 Buffalo Ave., Niagara Falls, N. Y.  
 Moore Co., 544 Westport Rd., Kansas City 2, Mo.  
 Moore's Time Saving Equipment Co., 1935 S. Sterling Ave., Elkhart, Ind.  
 Morehead Mfg. Co., 2455 W. Warren Ave., Detroit 8, Mich.  
 Morheat Sales Co., 700 E. Kalamazoo St., Lansing 12, Mich.  
 Morse Display Cases, 201 N. Wells St., Chicago, Ill.  
 Morse Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.  
 Mortemuth Chemical Laboratories, 3178 N. Fraternity St., Milwaukee 12, Wisc.  
 Moser Bag & Paper Co., 3049 E. 55th St., Cleveland 4, Ohio  
 Multi-Clean Products, Inc., 2377 Ford Parkway, St. Paul 1, Minn.  
 Mund Boilers, Inc., 1600 N. Indiana St., Los Angeles 33, Cal.  
 Murphy Sales Co., Box 224, Station A, Atlanta 1, Ga.  
 Murray, D. J., Mfg. Co., 1002-24 Third St., Wausau, Wisc.  
 Mutual Paper Box Co., Inc., 510 W. 27th St., New York 1, N. Y.  
 Myer, Henry, Thread Mfg. Co., 319 W. Van Buren St., Chicago 7, Ill.

## N

Nagel Coat Hanger Co., 1200-18 Oliver St., Houston 7, Texas  
 Nashua Gummed & Coated Paper Co., Surehold Div., Franklin St., Nashua, N. H.  
 Nashua Mfg. Co., 401 Fifth Ave., New York 16, N. Y.  
 National Aircraft Burner Co., Inc., 1287 E. Sedgley Ave., Philadelphia 34, Pa.  
 National Aluminate Corp., 6215 W. 66th St., Chicago 38, Ill.  
 National Aniline Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.  
 National Boiler Protector Co., Reibold Bldg., Dayton 2, Ohio  
 National Bundle Tye Co., Blissfield, Mich.  
 National Cash Register Co., Main & K Sts., Dayton 9, Ohio  
 National Chemical Sales Co., Laboratory, Inc., 414-16-18 Sixth St., N. W. Atlanta, Ga.  
 National Cleaners Chemical Mfg. Co., 2807-11 W. Lake St., Chicago 12, Ill.  
 National Dryer Mfg. Co., 2500 60th St., Kenosha, Wisc.



National Dye House, 5812 W. Washington Blvd., Culver City, Cal.  
 National Dye Works, Inc., 3513 Washington Blvd., Baltimore 22, Md.  
 National Indemnity Exchange, 3820 Washington Blvd., St. Louis 8, Mo.  
 National Institute of Cleaning & Dyeing, Silver Spring, Md.  
 National Life Insurance Co., Montpelier, Vt.  
 National Marking Machine Co., 4026 Cherry St., Cincinnati 23, Ohio  
 National Milling & Chemical Co., 4601 Nixon St., Philadelphia 27, Pa.  
 National Paper Band Co., P. O. Drawer 126, Denver, Colo.  
 National Repair Services, 615 E. Main St., Richmond 19, Va.  
 National Starch Products, Inc., 270 Madison Ave., New York 17, N. Y.  
 National Steam Pump Co., 701 W. Johnson, Upper Sandusky, Ohio  
 National Tag & Label Corp., 19 Bridge St., Watertown 42, Mass.  
 National Textile Conservation Div., Research Laboratories, Sherron Acres, Durham, N. C.  
 National Trust Lending System, 23 E. Jackson Blvd., Chicago 4, Ill.  
 Necchi Sewing Machine Sales Corp., 164 W. 25th St., New York 1, N. Y.  
 Neon Sign Co., 18th Ave. of Plastics Div., N. 14th at Taylor, Herrin, Ill.  
 Neva-Clog Products, Inc., 506 Logan St., Bridgeport 1, Conn.  
 New Departure Div. General Motors Corp., Bristol, Conn.  
 Newhouse Co., 1247 E. Colorado Blvd., Glendale, Cal.  
 New York High Grade Button Works, 3569 Broadway, New York 31, N. Y.  
 New York Net Co., 2555 Webster Ave., New York 58, N. Y.  
 New York Pressing Machinery Corp., 880 Broadway, New York 3, N. Y.  
 New York Telecon Corp., 12 E. 44th St., New York 17, N. Y.  
 New York Twin Corp., 43 W. 36th St., New York 18, N. Y.  
 Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.  
 Nicholson, W. H. & Co., 12 Oregon St., Wilkes-Barre 1, Pa.  
 Nicholson, Wm. J., Laboratories, 2971 West Davidson, Detroit, Mich.  
 No-Dam Co., 618 N. Wells St., Chicago 10, Ill.  
 Nopco Chemical Co., Inc., First & Essex Sts., Harrison, N. J.  
 Norman & Co., 531 N. Milwaukee Ave., Chicago 22, Ill.  
 North American Electric Lamp Co., 1090 Tyler St., St. Louis 6, Mo.  
 North American Mfg. Co., 4533 E. 71st St., Cleveland, Ohio  
 North Coast Chemical & Soap Works, 6307-21 17th Ave. S., Seattle 8, Wash.  
 Northeastern Soap & Chemical Co., Clinton St., Amesbury, Mass.  
 Northern Equipment Co., 1945 Grove Dr., Erie, Pa.  
 Norton & Williams, Inc., 608 North Ave., Westfield, N. J.  
 Nu-Life Mfg. Co., P. O. Box 2942, St. Louis 17, Mo.  
 Nuodex Products Co., Inc., 830 Magnolia Ave., Elizabeth, N. J.  
 Nu-Pro Mfg. Co., 2918 Washington Ave., St. Louis 3, Mo.  
 Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.  
 Nyeco Products Co., 110 W. 29th St., New York 1, N. Y.  
 Nylon Textile Products Co., Inc., 601 W. 26th St., New York 1, N. Y.

## D

O. D. Chemical Corp., 38 Marblehead Rd., Tuckahoe, N. Y.  
 Oakite Products, Inc., 22B Thames St., New York 6, N. Y.  
 Ohio Centrifugals Co., 342 S. Monument Ave., Hamilton, Ohio  
 Ohio Injector Co., 105 Main St., Wadsworth, Ohio  
 Ohio Mechanics Institute, Central Parkway & Walnut St., Cincinnati 10, Ohio  
 Ohmer Register Co., 740 Bolander Ave., Dayton, Ohio  
 Oil-Rite Corp., 3434 S. 18th St., Milwaukee 7, Wisc.  
 Oil States Petroleum Co., Inc., 233 Broadway, New York 10, N. Y.  
 Olson, J. B. E., Corp., 1740 Broadway, New York 19, N. Y.  
 Olsenmark Corp., 124 White St., New York 13, N. Y.  
 Olson Filtration Engineers, Inc., 1624 N. Kilbourn Ave., Chicago 39, Ill.  
 Omaha Dye Works, 24th & Poppleton, Omaha, Neb.  
 Ontario Iron Works, 32 Park St., Polaski, N. Y.  
 Orr Feit & Blanket Co., Piqua, Ohio  
 Orr & Schembrow, Inc., 830 Morgantown Rd., Reading, Pa.

Oshorn Bros., 223 W. Jackson Blvd., Chicago 6, Ill.  
 Oshkosh Filter & Softener Co., 51 Cease St., Oshkosh, Wisc.  
 Outside Venetian Blind Co., 2625 Elm St., Dallas 1, Texas  
 Owens-Corning Fiberglass Corp., Nicholas Bldg., Toledo 1, Ohio

## P

Pasche Airbrush Co., 1909 W. Diversey Parkway, Chicago 14, Ill.  
 Pabst Sales Co., 221 N. LaSalle St., Chicago 1, Ill.  
 Pacific Car & Foundry Co., Renton, Wash.  
 Pacific Coat Hanger Mfg. Co., 6710 Avalon Blvd., Los Angeles 3, Cal.  
 Package Chemical Co., Inc., 218 W. First St., Chicago 16, Ill.  
 Package Masters, 2525 S. Wabash Ave., Chicago 16, Ill.  
 Packless Metal Products Corp., 31 Winthrop Ave., New Rochelle, N. Y.  
 Padcraft Corp., 480 W. Front St., Red Bank, N. J.  
 Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.  
 Pantex Mfg. Corp., 521 Roosevelt Ave., Pawtucket, R. I.  
 Paper Chemicals, Inc., 510 W. 27th St., New York 1, N. Y.  
 Pars-Lux Products Co., 4158 W. Schubert Ave., Chicago 39, Ill.  
 Pargament-Fidler, Inc., 307 Canal St., New York 13, N. Y.  
 Parolan Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.  
 Parker, Sid E., Boiler Mfg. Co., Inc., 2035 E. 37th St., Los Angeles 11, Cal.  
 Patok & Co., 1900 16th St., San Francisco 1, Cal.  
 Patterson-Kelley Co., Inc., 104 Warren St., East Stroudsburg, Pa.  
 Patterson Laboratories, Inc., 1633 Bagley Ave., Detroit 16, Mich.  
 Paulin Products Co., 4444 Lawndale Ave., Lyons, Ill.  
 Pavson Mfg. Co., 2916 W. Jackson Blvd., Chicago 12, Ill.  
 Peabody Engineering Corp., 580 Fifth Ave., New York 1, N. Y.  
 Peerless Pump Div., Food Machinery Corp., 301 West Ave., 26, Los Angeles 31, Cal.  
 Pellerin Milnor Corp., 8000 Edinburgh St., New Orleans 18, La.  
 Penick & Ford, Ltd., Inc., 420 Lexington Ave., New York 17, N. Y.  
 Pennington Co., Riverview Ave., Gillette, N. J.  
 Penn Novelty Co., 328-30 N. 15th St., Philadelphia 2, Pa.  
 Pennsylvania Rubber Co., Penn-Craft Park, Jeannette, Pa.  
 Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 8, Pa.  
 Perchlmutter, M. & Co., 4423-25 Broadway, Chicago 40, Ill.  
 Perfection Marking Machine Co., 441 Detroit St., Detroit 8, Mich.  
 Perfection Products Co. & Identification, Inc., 550 W. Harrison St., Chicago 7, Ill.  
 Perlex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wisc.  
 Permafiber Corp., 450 Seventh Ave., New York 1, N. Y.  
 Fern-Apex Corp., 432 Waverly Ave., Mamaroneck, N. Y.  
 Per-Mo Products Co., 3602 Woodland Ave., Kansas City 3, Mo.  
 Permutit Co., 330 W. 42nd St., New York 18, N. Y.  
 Perry, E. J. & Co., 1329 Rockdale Ave., New Bedford, Mass.  
 Pest Control Equipment Co., 47 W. 43rd St., New York 18, N. Y.  
 Petroleum Heat & Power Co., Stamford, Conn.  
 Phenix Supply Co., 361 Central Ave., S. W., Atlanta 3, Ga.  
 Philadelphia Betting Co., Sixth & Spring Garden Sts., Philadelphia 23, Pa.  
 Philadelphia Quartz Co., 1160 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.  
 Philco Corp., Storage Battery Div., 467 Calhoun St., Trenton 7, N. J.  
 Phoenix Oil Co., 9505 Cassius Ave., Cleveland 3, Ohio  
 Phoenix Products Co., 4715 N. 27th St., Milwaukee 10, Wisc.  
 Phoenix, Inc., 77 Broadway, Cambridge 42, Mass.  
 Pick Mfg. Co., 255 S. Main St., West Bend, Wisc.  
 Pioneer Development Co., 1059 Ingraham St., Pittsburgh 14, Cal.  
 Pittsburgh Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.  
 Pittsburgh Plate Glass Co., Columbia Chemical Bldg., Fifth Ave. at Bellefield, Pittsburgh 13, Pa.  
 Pittsburgh Plate Glass Co., Paint Div., 632 Duquesne Way, Pittsburgh, Pa.  
 Pittsburgh Tag Co., 1112-20 Galveston Ave., Pittsburgh 14, Pa.  
 Pittsburgh Waterproof Co., 2537 Penn Ave., Pittsburgh 22, Pa.

Plibrico Jointless Firebrick Co., 1800 Kingsbury St., Chicago 14, Ill.  
 Pneumatic Engineering & Sales, 1010 Des Moines Bldg., Des Moines, Iowa  
 Pocock, M. A., 1234 Central Ave., N.E., Minneapolis 8, Minn.  
 Poland Laundry Machinery Co., 47 Kemble St., Boston 19, Mass.  
 Popkins Studios Fixtures, Inc., 6805 Easton Ave., St. Louis 14, Mo.  
 Porro-Pres Co., 1321 N. 68th St., Milwaukee 13, Wisc.  
 Porto-Fab Co., Inc., 9215 Weiss St., Dallas 9, Texas  
 Powers Regulator Co., 2810 Greenview Ave., Chicago 14, Ill.  
 Preferred Utilities Mfg. Corp., 1860 Broadway, New York 23, N. Y.  
 Pre-Marked Strip Tag Co., 3233 India St., San Diego 1, Cal.  
 Pres-Grip Corp., 3108 Main St., Buffalo 14, N. Y.  
 Procter & Gamble Distributing Co., Gwynne Bldg., P. O. Box 599, Cincinnati 2, Ohio  
 Procter & Schwartz, Inc., Seventh St. & Tabor Rd., Philadelphia 20, Pa.  
 Progressive Textile Mfg. Co., 3252 River Ave., Camden 5, N. J.  
 Proportioners, Inc., P. O. Box 1442, Providence, R. I.  
 Prosperity Co., Inc., 2131-2171 Erie Blvd., E. Syracuse 1, N. Y.  
 Prym, William, Inc., Dayville, Conn.  
 Pullman Towel Cabinet Co., Inc., 430-36 W. 54th St., New York 19, N. Y.  
 Purkert Mfg. Co., 325 E. Third St., Joplin, Mo.  
 Pyrene Mfg. Co., 560 Belmont Ave., Newark 6, N. J.  
 Pyrometer Instrument Co., Inc., Bergenfield 33, N. J.

## Q

Quality Products Co., 3050 Montrose, Chicago 18, Ill.  
 Quaidley Co., Inc., 527 Fifth Ave., New York 17, N. Y.

## R

Radiant Drying Co., 1680 Vine St., Los Angeles 28, Cal.  
 Radiator Specialty Co., 1700-1900 Dowd Rd., Charlotte 1, N. C.  
 Rainbow Dye Works, 109 S. 16th St., Louisville 2, Ky.  
 Ramelli, Rudolph, Inc., 1700 Foydras, New Orleans 6, La.  
 Ramon, Co., Div. S. Obermayer Co., 2563 W. 18th St., Chicago 8, Ill.  
 Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.  
 Rapid-Standard Co., 308 People's National Bank Bldg., Grand Rapids 2, Mich.  
 Rasmussen Bag Co., Inc., 1904 Grove St., Glenview, Ill.  
 Raybestos-Manhattan, Inc., 61 Willett St., Passaic, N. J.  
 Raychem Products Co., 20 E. 19th St., Paterson 4, N. J.  
 Ray Oil Burner Co., 401-499 Bernal Ave., San Francisco 12, Cal.  
 Reading-Pratt & Cady, Div. American Chain & Cable Co., Inc., Tulpehocken St. & Lebanon Valley R. R., Reading, Pa.  
 Reed Mfg. Co., 1425 W. Eighth St., Erie, Pa.  
 Reed-Stabin, Inc., 504 62nd St., Brooklyn 20, N. Y.  
 Reed-Davis Drugs, Inc., Meriden, Conn.  
 Reeves Bros., Inc., 54 Worth St., New York 13, N. Y.  
 Reinite Corp., 1023 Harney St., Omaha, Neb.  
 Reintjes, George P., 2515-17 Jefferson St., Kansas City 10, Mo.  
 Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc., 238 Eagle St., Brooklyn 22, N. Y.  
 Reliable Steam Pressing Machine Service, Inc., 175 Bergen St., Newark 3, N. J.  
 Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio  
 Rema Corp., Box 86, Norwalk, Conn.  
 Remington Rand Co., 315 Fourth Ave., New York, N. Y.  
 Renard's, 741 Madison Ave., New York 21, N. Y.  
 Reece Motors, Inc., 1314 S. Washington Ave., Lansing 20, Mich.  
 Reggel-O-Products Div., North American Merchandise Co., Transportation Bldg., Detroit 26, Mich.  
 Republic Flow Meters Co., 2240 W. Diversey Parkway, Chicago 47, Ill.  
 Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio  
 Research Laboratories Corp., P. O. Box 388, Durham, N. C.  
 Research Products Corp., 1011 E. Washington Ave., Madison 3, Wisc.



Resilio Co., 2328 W. Nelson St., Chicago 18, Ill.  
 Resisto Laboratories, 1266 Donald Ave., Lakewood, Ohio  
 Restolux Corp., 39 Plamson Rd., Belleville 9, N. J.  
 Reverse Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.  
 Revolute Division, Atlas Powder Co., Ludlow St., Stamford, Conn.  
 Rey-Var Products Co., 53 Clark St., Hamburg, N. Y.  
 Rhodes, Preston T., 520-22 N. 61st St., Philadelphia, Pa.  
 Rison Mfg. Co., 14 Rison St., Naugatuck, Conn.  
 Riverside Chemical Co., Inc., 871-947 River Rd., North Tonawanda, N. Y.  
 Riverside Mfg. Co., 4919-27 Connecticut St., St. Louis 9, Mo.  
 Roberts-Modaber Co., Inc., 1035 W. Lake, Chicago, Ill.  
 Roberts Numbering Machine Co., 705 Jamaica Ave., Brooklyn 8, N. Y.  
 Robins, C. S. & Co., 126 Chouteau St., St. Louis, Mo.  
 Robinson's Weaving System, Lebanon, Ind.  
 Robot Laundry Machinery Sales, Wolf Ave., Chambersburg, Pa.  
 Rochester Can Co., 114 Greenleaf St., Rochester 9, N. Y.  
 Rodwell, W. S., Co., 240 Eliot St., Fairfield, Conn.  
 Rodin Machinery Co., Div. Rodin Bros., 930 E. 43rd St., Chicago 15, Ill.  
 Roller Bearing Co. of America, Whitehead Rd., Trenton 3, N. J.  
 Rome Soap Mfg. Co., Sixth St., Rome, N. Y.  
 Romalex Tubing Co., Inc., Packard Bldg., Philadelphia 2, Pa.  
 Root & Co., 11 Ionia, S. W., Grand Rapids 2, Mich.  
 Roots-Connerville Blower Corp., 900 W. Mount St., Connerville, Ind.  
 Rosenthal Mfg. Co., 3035 N. Kedzie Ave., Chicago 25, Ill.  
 Rosenthal Paper Co., 200 Lynch St., St. Louis 18, Mo.  
 Roth, Roy E., Co., 2430 Fourth Ave., Rock Island, Ill.  
 Rothleder Co., Mannie, 50 W. 29th St., New York, N. Y.  
 Rubber City Mfg. Co., 714 N. Main St., Akron 10, Ohio  
 Ruberoid Co., 500 Fifth Ave., New York 18, N. Y.  
 Rubinoff, M., Co., 154-156 W. 27th St., New York 1, N. Y.  
 Ruggles, Klingemann Mfg. Co., Foster Court, Salem, Mass.  
 Ruland & Gas Mfg. Co., 245 Maple Ave., North Giarard, Pa.  
 Rumford Chemical Works, 21 Newman Ave., Rumford 16, R. I.  
 Russell Mfg. Co., Middletown, Conn.

## S

Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio  
 St. Louis Sticker Co., 1906 Pine St., St. Louis 8, Mo.  
 Salisbury Mfg. Co., Box 1523, Providence, R. I.  
 Salomon, L. A. & Bro., 216 Pearl St., New York 7, N. Y.  
 Sani-Tup, R. D. J., Sandy Hook, Conn.  
 Sarco Co., Inc., Empire State Bldg., New York, N. Y.  
 Sarf Mothproofing Co., 410 N. Kedzie St., Chicago 12, Ill.  
 Schaub, Fred H., Engineering Co., Inc., 2110 S. Marshall Blvd., Chicago 23, Ill.  
 Schirmer-Dornbier Pump Co., 1719 E. 39th St., Cleveland 14, Ohio  
 Schor Paper Co., 56 W. 45th St., New York 19, N. Y.  
 Schorch & Co., Inc., 120 Bruckner Blvd., New York 54, N. Y.  
 Schramm, Inc., West Chester, Pa.  
 Schutte & Koerting Co., Cornwells Heights, Bucks County, Pa.  
 Schwartz, B. W., Co., Box 205, Washington St., Two Rivers, Wisc.  
 Schwitzer-Cummins Co., 1145 E. 22nd St., Indianapolis 7, Ind.  
 Seantley Company, Inc., 41-23 24th St., Long Island City 1, N. Y.  
 See Cleaning Systems, 65 La France Ave., Bloomfield, N. J.  
 Sec-O-Matic Corp., 55 LaFrance Ave., Bloomfield, N. J.  
 Security Fur Seal Co., Inc., 144 W. 27th St., New York 1, N. Y.  
 Sellers Engineering Co., 4876 N. Clark St., Chicago 40, Ill.  
 Sergeant, E. M., Pulp & Chemical Co., Inc., 7 Dev St., New York 7, N. Y.  
 Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio  
 Shane Uniform Co., Inc., 2013 W. Maryland, Evansville 7, Ind.  
 Sheddow-Heinz Mfg. Co., 15-B Wilder St., Minneapolis 1, Minn.  
 Shell Oil Co., Inc., 50 W. 50th St., New York 20, N. Y.  
 Shields Engineering & Mfg. Co., 277 E. 156th St., Cleveland 10, Ohio  
 Shuler Conveyors, Inc., 43 Hutcheson Place, Lynbrook, Long Island, New York.

Sibur Mothproof Co., P. O. Box 956, Colorado Springs 3, Colo.  
 Siebling Mfg. Co., 100 Owen St., George, Iowa  
 Signal Chemical Mfg. Co., 2650 Wood Hill Rd., Cleveland 4, Ohio  
 Silkleen Mfg. Co., P. O. Box 512, Chicago 90, Ill.  
 Simmons Machine Co., 5118 Lincoln Ave., Chicago 25, Ill.  
 Simplex Oil Heating Co., 11 Park Pl., New York 7, N. Y.  
 Simplex Time Recorder Co., 24 S. Lincoln St., Gardner, Mass.  
 Singer Sewing Machine Co., 149 Broadway, New York 6, N. Y.  
 Sirotta, Bernard, Co., 620 Smith St., Brooklyn 31, N. Y.  
 Skelly Oil Co., 47th St. & Penn Ave., (605 W. 47), Kansas City, Mo.  
 Smith, Drum & Co., Allegheny Ave. below Fifth, Philadelphia, Pa.  
 Smith, Frank R., Co., 503 Front St., Orange, Texas  
 Smith, George, Mfg. Co., 1323 W. Carroll Ave., Chicago 7, Ill.  
 Smith, Gilman B., Co., Inc., 915 Broadway, New York 10, N. Y.  
 Smith, Laurence C., 1526 Valley Dr., Syracuse, N. Y.  
 Smith, R. B., Co., 1609 S. Nevada Ave., Colorado Springs, Colo.  
 Smith, A. S., Inc., Box 272, Red Bank, N. J.  
 Snoon Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.  
 Solvay Sales Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.  
 Somers, S. S., Inc., 88 Lexington Ave., New York 16, N. Y.  
 Southeastern Textile Co., 222 E. Solomon St., Griffin, Ga.  
 Southerly Mills, Inc., 585 Wells St., S. W., Atlanta, Ga.  
 Sparks Pad Co., 7712 Denton Dr., Dallas 9, Texas  
 Spear Box Co., Inc., 270 11th Ave., New York 1, N. Y.  
 Speare Co., 2235 S. Ford Ave., Chicago 16, Ill.  
 Specialty Devices Co., 805 E. 26th St., Norfolk 4, Va.  
 Speed Products Co., Inc., 37-18 Northern Boulevard, Long Island City 1, N. Y.  
 Spencer Turbine Co., 486 New Park Ave., Hartford, Conn.  
 Spix Products Co., 119 Dahlem St., Pittsburgh 6, Pa.  
 Spotswood Parker & Co., 313 Techwood Dr., N. W., Atlanta, Ga.  
 Squires, C. E., Co., 18502 Syracuse Ave., Cleveland 10, Ohio  
 Stadham Co., Inc., 1825-31 N. 20th St., Philadelphia 21, Pa.  
 Stadler Textile Weavers, 312 E. Wisconsin Ave., Milwaukee, Wisc.  
 Stafford N., Co., 53rd & First Ave., Brooklyn 20, N. Y.  
 Stainprint Mfg. Co., 2032 E. Seventh St., Los Angeles 21, Cal.  
 Staley, A. E., Mfg. Co., 220 Eldorado, Decatur 60, Ill.  
 Stamford Chemical Co., 60 Spruce St., Stamford, Conn.  
 Stampograph Co., Inc., 79 Alexander Ave., Bronx 54, N. Y.  
 StamPatch Magic Mender, Elbow Lake, Minn.  
 Standard Chemical Works Co., 1987 E. Main St., Columbus 9, Ohio  
 Standard Fire Insurance Co., 151 Farmington Ave., Hartford, Conn.  
 Standard Garment Co., 2283 Fulton St., Toledo 10, Ohio  
 Standard Laundry & Cleaning Machinery Co., 6900 Maple Ave., Dallas 2, Texas  
 Standard Oil Co., 910 Michigan Ave., Chicago 80, Ill.  
 Standard Register Co., 3005 Campbell St., Dayton 1, Ohio  
 Standard Soap Co. of Camden, 205 S. Second St., Camden, N. J.  
 Stanley, John T., Co., Inc., 626-66 W. 30th St., New York 1, N. Y.  
 Sta-Nu Corp., 35-07 31st St., Long Island City 6, N. Y.  
 Starr Soap & Chemical Co., 139 Main St., Cambridge, Mass.  
 Star Service Hanger Div., L. A. Young Spring & Wire Corp., 9200 Russell St., Detroit 11, Mich.  
 Stauffer Chemical Co., 420 Lexington Ave., New York 17, N. Y.  
 Steamarter Automatic Boiler Co., 5819 Compton Ave., Los Angeles 11, Cal.  
 Steamarter Co., Inc., 110 W. 30th St., New York 1, N. Y.  
 Steam Engineering & Sales Co., 1818 W. 47th St., Chicago, Ill.  
 Stebbins Mfg. & Supply Co., 1735 Blake St., Detroit 2, Mich.  
 Steelcote Mfg. Co., 3418 Gratiot, St. Louis 8, Mo.  
 Steele Canvas Basket Co., Inc., 15 Brook St., New York 55, Mass.  
 Steele, J. W. & Co., 12th Ave. & Howell, North Kansas City 16, Mo.  
 Steel Products Engineering Co., 1205 W. Columbus St., Springfield, Ohio  
 Steigler, George, Co., 8 Forest Ave., Cincinnati, Ohio  
 Stein, Lawrence M., Co., 815-25 W. Van Buren St., Chicago 7, Ill.

Steiner Sales Co., 225 W. Chestnut St., Chicago 10, Ill.  
 Steinman Paper Co., 1302 N. Halsted Ave., Chicago 22, Ill.  
 Stephens-Adams Mfg. Co., Ridgeway Ave., Aurora, Ill.  
 Sterling, Inc., 3738 N. Holton St., Milwaukee 12, Wisc.  
 Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.), Reservation Rd., Hyde Park 36, Mass.  
 Sterling Supply Corp., 1 Porter St., Philadelphia 48, Pa.  
 Stern Chemicals, Inc., 1450 Broadway, New York 18, N. Y.  
 Stevenson Co., Stevenson, Conn.  
 Stevenson, Jordan & Harrison, Inc., 205 W. Wacker Dr., Chicago 6, Ill.  
 Stewart-Warner Corp.-Alemite Corp., 1826 Diversey Parkway, Chicago 14, Ill.  
 Sticht, Herman Co., Inc., 27 Park Pl., New York 7, N. Y.  
 Stomac Engineering Co., Inc., 2000 W. 25th, Cleveland 13, Ohio  
 Stout, David, & Sons, 7016 Manchester St., St. Louis 17, Mo.  
 Stover Water Softener Co., Stover Bldg., St. Charles, Ill.  
 Street, R. R., & Co., Inc., 561 W. Monroe St., Chicago 6, Ill.  
 Striker's Laundry Machinery, Inc., 221 N. Westmoreland, Los Angeles 4, Cal.  
 Stromberg Time Corp., 109 Lafayette St., New York 13, N. Y.  
 Strong, Carlisle & Hammond Co., 1392 W. Third St., Cleveland 13, Ohio  
 Stry-Lenkoff & Co., 815 E. Market St., Louisville 6, Ky.  
 Studebaker Corp., South Bend, Ind.  
 Subox, Inc., 347 River Rd., North Arlington, N. J.  
 Suedecare Inc., 50 Station Plaza, Hempstead 1, N. Y.  
 Sun Fluorescent Electric Co., 1655 Bedford Ave., Brooklyn 25, N. Y.  
 Superior Combustion Industries, Inc., 1475 Broadway, New York 15, N. Y.  
 Superior Products Co., 148 Pearl St., Somerville 45, Mass.  
 Superior Rug Machinery Co., 2738 N. Sheffield Ave., Chicago 14, Ill.  
 Super Laundry Machinery Co., Div. St. Joe Machines, Inc., State & Water Sts., St. Joseph, Mich.  
 Sure-Hold Div., Nashua Gummed & Coated Paper Co., Franklin St., Nashua, N. H.  
 Sureloc Paper Clip Co., Kenyon Ave., Wakefield, R. I.  
 Swift & Co., Union Stock Yards, Chicago 9, Ill.  
 Sylvania Div., American Viscose Corp., 122 E. 42nd St., New York 17, N. Y.  
 Sylvania Electric Products, Inc., 500 Fifth Ave., New York, N. Y.

## T

Taco Heaters, Inc., 137 South St., Providence 3, R. I.  
 Tad Chemical Co., Div. Ace Industrial Compounds Corp., 625 S. Goodman, Rochester 7, N. Y.  
 Tagit Co., 1212 11th St., Rockford, Ill.  
 Tagliabue, C. J., Div. Portable Products Corp., Room 4114 Woolworth Bldg., 233 Broadway, New York 7, N. Y.  
 Takamine Laboratory, Inc., 193 Arlington Ave., Clifton, N. J.  
 Take-Care Mfg. & Sales Co., 2225 E. Ninth St., Wichita, Kans.  
 Talley Laundry Machinery Co., Mill St., Greensboro, N. C.  
 Talon, Inc., 626 Arch St., Meadville, Pa.  
 Tarbonis Co., 4300 Euclid Ave., Cleveland 8, Ohio  
 Tash, Al, Dye Works, Grand Prairie, Dallas County, Texas  
 Taylor, W. A., & Co., 7300 York Rd., Baltimore 4, Md.  
 Tejax Engineering Corp., 2 Allens Ave., Providence 3, R. I.  
 Teleflex, Inc., 245 W. Wingohocking St., Philadelphia 40, Pa.  
 Temple, A. B., Co., 308 W. Burlington, La Grange, Ill.  
 Templeton Bros., Inc., 699 Main St., Walpole, Mass.  
 Testing Machines, Inc., 427 W. 42nd St., New York, N. Y.  
 Thomas, C. 135 E. 42nd St., New York, N. Y.  
 Texas Spag Mfg. Corp., 4905 Calhoun Rd., Houston 4, Texas  
 Tex Tag Control Systems, 522 W. Peachtree St., Atlanta, Ga.  
 Textile Marking Machine Co., Inc., 248 Walton St., Syracuse 2, N. Y.  
 Theobald Industries, Sanford Ave., Kearny, N. J.  
 Thomaston Mills, E. Main St., Thomaston, Ga.  
 Thompson, H. C., Clock Co., 38 Federal St., Bristol, Conn.  
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**LAUNDRY PLANTS and DRYCLEANING PLANTS.** 100% PROPOSITIONS. New York, New Jersey, Connecticut, Pennsylvania. Other Sections—WHERE DO YOU WISH TO LOCATE? Richard J. Muller—Lic. Broker, 89-16 184 St., Jamaica 3, N. Y. Tel. REpublic 9-3016. 4646-2

**PORTLAND OREGON**—Quality laundry, cleaners top prices, one truck. Grosses \$40,000, easily doubled. Same management eleven years. Swell family setup. \$25,000 Terms—sell, lease property also house. Write: BOX 9428, STARCHROOM LAUNDRY JOURNAL. -2

**KANSAS CITY, MISSOURI, FLAT WORK LAUNDRY:** Capacity per 8-hour day 15,000 lbs. flat work, 500 coats, 250 blankets. Brick building, mill type, one story, sprinklered, corner property, having railroad siding, 21,860 sq. ft. of land, building having 13,600 sq. ft. of floor space. ADDRESS: Box 9485—STARCHROOM LAUNDRY JOURNAL. -2

**Laundry for Sale**—Located in Louisiana. Small plant, all modern equipment, yearly volume over \$135,000, would consider partner to supervise laundry and drycleaning. Average monthly profit for first six months this year over \$1,500. Will take \$20,000 to handle deal. Would consider selling entire business, or any part. ADDRESS: Box 9493, STARCHROOM LAUNDRY JOURNAL. -2

**Retiring West Coast laundry owner** will sell his modern plant on good terms to responsible people. For details write N. F. Liatas, 236 La Arcade Building, Santa Barbara, Calif. 9522-2

**LAUNDRY & DRYCLEANING**, grossed \$40,000 last year. Located in thriving Northern Utah city. Only laundry in the county. Good possibility to double volume. \$30,000 will buy building, real estate, and all equipment with 1/3 down, balance like rent. Excellent opportunity. C. B. Williams, Real Estate Broker, Brigham City, Utah. 9526-2

**LAUNDRY, FLAT WORK**, in CINCINNATI, OHIO, having a daily eight hour capacity of 15,000 lbs. of flat work, 250 coats and 250 blankets. Brick, mill type, sprinklered, 3-story building, containing approximately 20,000 sq. ft. floor space. ADDRESS: Box 9486, STARCHROOM LAUNDRY JOURNAL. -2

**Profitable plant with real estate** in north central Indiana, highly industrialized growing city with 1951 sales averaging \$2,300 weekly. Exceptional profitable operation with only 48% gross payroll. Owner to retire. Reasonable cash investment needed. ADDRESS: Box 9528, STARCHROOM LAUNDRY JOURNAL. -2

### LAUNDRIES and CLEANING PLANTS FOR SALE (Cont'd)

**Laundry for sale in CENTRAL MICHIGAN.** Good business, equipment in good shape. Owner is not a laundryman and has other interests. Will sell very reasonable. Industrial community thickly populated, no competition. Write for details: Box 9530, STARCHROOM LAUNDRY JOURNAL. -2

**FLAT WORK LAUNDRY IN TAMPA, FLORIDA:** Daily capacity 6,000 lbs. flat work and 300 coats. Concrete block, mill type building, having 8500 sq. ft. floor space. ADDRESS: Box 9487, STARCHROOM LAUNDRY JOURNAL. -2

**Laundry and drycleaning plant** in good brick building. Three good delivery trucks. Lot of equipment practically new. Volume \$2,200 to \$2,500 per week. Price building and equipment complete \$65,000. A real money maker. No union. ADDRESS: Box 9534, STARCHROOM LAUNDRY JOURNAL. -2

**Laundry and Cleaning plant** in mining town Arizona, only laundry in town running \$12,000 month. Plenty of territory to expand. Own lot and buildings. Four delivery trucks. On account of health owner will sell controlling interest for \$35,000 or all stock in the corporation for \$55,000. Easy terms. Arthur Horn, 5125 Alameda, El Paso, Texas. 9543-2

**For Sale:** Laundry-Drycleaning and Storage plant in Western Maryland, doing a half million business a year also large garage for trucks. ADDRESS: Box 9544, STARCHROOM LAUNDRY JOURNAL. 9544-2

### BUSINESS OPPORTUNITIES

**Connecticut laundry and cleaning plant** wants production man as partner. \$80,000 volume. Small investment. ADDRESS: Box 9488, STARCHROOM LAUNDRY JOURNAL. -11

**Start a Diaper Service** dry-fold laundry in your locality. We will equip complete plant, including: boiler, laundry machinery, truck, 500 doz. diapers—all for \$4,500. Write: Box 9540, STARCHROOM LAUNDRY JOURNAL. -11

### LAUNDRIES and CLEANING PLANTS WANTED

**WANTED — PLANTS — ALL KINDS —** New York, New Jersey, Connecticut. **BUTYERS WAITING — LIST YOURS.** RICHARD J. MULLER Lic. Broker, 89-16 184 St., Jamaica 3, N. Y. Tel. REpublic 9-3016. 4584-1

**Small or medium sized laundry-drycleaning plant** wanted, or partnership, by experienced efficient manager. ADDRESS: Box 9536, STARCHROOM LAUNDRY JOURNAL. -1

### LINEN SUPPLY and LAUNDRY BUSINESS WANTED

**WANTED: LINEN SUPPLY and LAUNDRY BUSINESS**, small or large, anywhere in the U. S. A. Replies held confidential. ADDRESS: Box 9249, STARCHROOM LAUNDRY JOURNAL. -1

### LAUNDRY LISTS

**Laundry Lists:** Our Catalog Lists, 4 1/4 x 11, white bond paper, black ink, padded, 80,000 Freight prepaid. Also Colored Lists. Ask for Catalog and prices. We also print Bundle Inserts, Driver Route Sheets, etc. Breslin Press, Inc., Finch Bldg., St. Paul 1, Minn. 9277-24



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#### PROFESSIONAL NOTICES

**CARRUTHERS' LAUNDRY BULLETIN**—the statistical Bulletin for the Laundry Industry—weekly sales reports—monthly cost trends and articles of timely interest. 64 Bulletins—\$12 annually. John Carruthers Co., Inc., 909 Little Building, Boston—a statistical organization affiliated with John Carruthers & Company, Accountants and Management Consultants, Boston, Hartford, and Washington. 2627-27

#### MISCELLANEOUS

**COTTON WIPING CLOTHS, STERILIZED, LINT FREE, ESPECIALLY SOFT AND PLIABLE FOR CLEANING MACHINERY. CLOTHS FOR ALL INDUSTRIAL AND MAINTENANCE PURPOSES. 50¢ PER POUND F. O. B. PHILADELPHIA. SEND IN YOUR ORDER TODAY. ABBOTT WIPING CLOTH CO., 4048 MAIN ST., PHILADELPHIA 27, PA.** 9523-8

**400 KEYTAG BARS, EACH BAR COMPLETE WITH 8 LARGE PINS. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y.** 9533-8

#### SITUATIONS WANTED

**MANAGER:** Want an honest, capable manager to make money for you? My record is successful. Northeast, please. **ADDRESS:** Box 9535, STARCHROOM LAUNDRY JOURNAL. -5

#### HELP WANTED

**SALES MANAGER WANTED:** For laundry doing 1/3 total volume in drycleaning, also has good fur storage business, rugs, pillow cleaning department, etc. Operates 90 above industry average routes, and is approximately 85 miles from Metropolitan New York City, and in a fast growing area. Plant has been long established, and considered best in the territory it covers. Man must have had sufficient previous experience to qualify. Must take complete charge and responsibility of sales department which includes all routemen and route supervisors' activities. Must be a leader, have organizational ability, original sales promotion ideas and command the respect of the routemen and supervisors by having them perform the duties that are expected of them. Salary minimum \$7,500 per year. Reply Box 9509, STARCHROOM LAUNDRY JOURNAL. -7

Superintendent for long established family plant, eastern Massachusetts. Weekly sales \$5,000—\$6,000. Must be able to maintain high quality at reasonable cost. Give complete information as to experience etc. Replies confidential. **ADDRESS:** Box 9512, STARCHROOM LAUNDRY JOURNAL. -7

**COMPETENT LAUNDRY MANAGER**—To assume full charge of growing and progressive Connecticut plant. Must be well qualified in supervisory ability and have some mechanical background. Excellent starting salary and opportunity to grow within business. Please write all information in your first letter, including age, domestic and military status, education, experience, specifying whether wholesale or retail. Replies strictly confidential. **ADDRESS:** Box 9524, STARCHROOM LAUNDRY JOURNAL. -7

**DRYCLEANING**—Manager who can train new personnel in modern, well-equipped solvent plant in Midwest doing \$5,000 weekly volume or more. An excellent opportunity for man that can qualify. Give reference, age, experience, wage bracket desired in first letter. **ADDRESS:** Box 9529, STARCHROOM LAUNDRY JOURNAL. -7

#### HELP WANTED (Cont'd)

**WASHMAN WANTED:** Experienced washman in quality laundry. Must be an industrious married man willing to move to Elkhart, with the intention of making it his home. Elkhart is a beautiful town of 38,000 with good convenient schools and churches. Paid vacations—six paid holidays—group insurance. Good opportunity for right man. Apply R. D. Collins, Hoosier Cleaners & Laundry, 921 Plum Street, Elkhart, Indiana. 9525-7

**LINEN SUPPLY MANAGER** wanted for west coast company, old firm, must be well experienced in all departments of linen supply business, especially sales, production experience not required, give complete experience record, references, picture, salary open. **ADDRESS:** Box 9539, STARCHROOM LAUNDRY JOURNAL. -7

**Production Engineer**—an excellent opportunity leading to full production superintendency in one of New England's leading laundry-drycleaning establishments. Engineering training and experience essential in view of early assumption of responsibilities in production methods, layout, wage incentive plans and supervision of several score employees. Only written applications will be considered. Kindly state your qualifications in full, including educational background and work experience, references, age, availability, and salary requirements. Photographs, if included, will be returned. Address all replies to Production Engineer, c/o The Connecticut Launderers & Cleaners Association, Inc., 410 Asylum St., Hartford 3, Conn. 9541-7

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**CENTRIZE: CENTRIFUGAL WASHING IN YOUR EXTRACTOR.** Installations in over 100 plants demonstrate outstanding possibilities for big savings in machinery, supplies, water, power and labor while producing beautiful quality work at a much higher profit. Write for detailed information to **HOWARD FINK AND SONS**, Laundry owners and engineers, 2224 63rd Street, Kenosha, Wisconsin. 9284-25

### CARDING WIRE

**CARDING WIRE:** For Curtain and Blanket Stretchers. **G. W. ROBINSON CO.**, 36 Pleasant Street, Watertown, Mass. 3240-38

### REPAIRS — PARTS — SERVICE

**REPAIR PARTS FOR ASHER IRONERS, GEARS ALL SIZES.** Expert service men. Full line of Asher ironers, rebuilt by men who know how. **BAEHR LAUNDRY MACHINE CO.**, 29 Calumet Street, Newark 5, N. J. 1228-37

### MACHINERY WANTED

**WANTED:** Monel or stainless steel washers, unloading extractors, and flatwork ironers. Highest cash prices paid for machinery in good condition. Give make, model, serial number and location. **ADDRESS:** Box 9359, STARCHROOM LAUNDRY JOURNAL. -3

### POWER PLANT EQUIPMENT FOR SALE

**INGERSOLL RAND TYPE 30 TWINCYLINDER COMPRESSOR WITH 10 H.P. MOTOR AND QUINCY TWINCYLINDER COMPRESSOR WITH 5 H.P. MOTOR. BOTH MACHINES COMPLETE WITH TANKS AND ALL ACCESSORIES. READY FOR IMMEDIATE DELIVERY. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9495-36**

**FOR SALE—**Chuse non releasing Corliss Engine 125 H.P. at 100 pound steam pressure. Direct connected to 75 kw. G.E. Alternator complete with exciter and switchboard. In excellent condition. **BOONVILLE ICE AND STORAGE COMPANY**, Boonville, Missouri. 9527-36

**FOR SALE—NEW—108"** diameter by 312" long horizontal Storage Water Heater with steel shell 1/4" thick and bumped heads 1/4" thick, welded construction. Storage capacity 11,900 gallons. Heating capacity 6,000 gallons of water per hour from 40° to 180° F. with steam at 100° pressure. Total weight approximately 16 ton. Never been in use. Available for immediate shipment. **ADDRESS: BOX 9538, STARCHROOM LAUNDRY JOURNAL.** -36

**Boilers for Sale: 1—15 H. P. Ames Boiler**, oil fired, 150 P.S.I. used 2 years, \$1,200. **1—5 H. P. Kane Boiler**, gas fired, 150 P.S.I. used 1 1/4 years, \$200. Both purchased new and outgrown. Both with full controls but less condensate return tank and pump. **Nichols Engineering**, 479 Ferry Blvd., Stratford, Conn. 9542-36

**NEW PATTERSON KELLEY HOT WATER STORAGE HEATERS READY FOR IMMEDIATE DELIVERY. 48 x 192" and 40 x 148" TANKS. WILL EACH FURNISH 2800 GALLONS 180° F. HOT WATER PER HOUR AND 40 x 148" GALVANIZED TANK TO FURNISH 5000 GALLONS 180° F. WATER PER HOUR WITH STEAM AT 100 POUNDS PRESSURE. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9545-36**

### MACHINERY FOR SALE

**ASHER ironers 48 x 120—32 x 120.** Rebuilt, big stock, Terms. **Baeher Laundry Machine Company**, 29 Calumet Street, Newark 5, N. J. 2240-4

**REBUILT LAUNDRY AND DRYCLEANING MACHINERY** — washers, extractors, ironers, presses, tumblers, filters, stills, boilers. Large stock on the floor **READY FOR INSPECTION AND DELIVERY.** Complete plants installed. **IMPERIAL LAUNDRY MACHINERY CO.**, 245 Huron St., Brooklyn 22, N. Y. 4400-4

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### MACHINERY FOR SALE (Cont'd)

**30" EXTRA DEEP AMERICAN or TROY EXTRACTORS**, with NEW electrical equipment. **EVANS AUTOMATIC SHIRT STARCHING MACHINE. CUMMINGS-LANDAU LAUNDRY MACHINERY CO.**, 313 Ten Eyck Street, BROOKLYN 6, N. Y. 4753-4

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**48" VIERSEN HIGH SPEED and 48" TOLHURST, DIRECT MOTOR DRIVEN EXTRACTORS.** Ready for immediate delivery. **CUMMINGS-LANDAU LAUNDRY MACHINERY CO.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 4855-4

For Laundry and Drycleaning Machinery try the Keel Company, 7229 N. Western Avenue, Chicago 45, Illinois. 4661-4

**AMERICAN and TROY 5 Roll 100" IRONERS**, ironing goods on both sides in single pass. Can be arranged for return feed. **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6766-4

**30 x 120" and 36 x 120" WILLEY ROYAL CALENDER FLATWORK IRONERS.** Quality production machines. Very reasonably priced. **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6767-4

**8 ROLL 120" AMERICAN and TROY IRONERS. REBUILT IN NEW MACHINE CONDITION.** **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6799-4

**HIGH SPEED EXTRACTORS, AMERICAN 17" MONEX, 15" and 17" BOCK, 20" HOFFMAN WITH MONEL BASKET.** **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6864-4

**HANDY IRONERS, AMERICAN, TROY and POLAND** single roll flatwork and small piece ironers. **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6865-4

**AMERICAN and TROY 26" and 28" EXTRACTORS, BELT or MOTOR DRIVEN WITH NEW ELECTRICAL EQUIPMENT. READY FOR PROMPT DELIVERY.** **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6868-4

**AMERICAN 48x120" CYLINDER FLATWORK IRONER (5125 type) with 6 PADDED PRESSURE ROLLS. IN EXCELLENT CONDITION. DOES QUALITY WORK. HIGH CAPACITY MACHINE AT LOW INVESTMENT VALUE.** **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6867-4

**COLLAR FINISHING UNIT**, consisting of **AMERICAN ZARMO Press**, Seam Dampener, Shaper and Edger. **CUMMINGS-LANDAU LAUNDRY MACHINERY CO.**, 313 Ten Eyck Street, BROOKLYN 6, N. Y. 5004-4

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**6 AMERICAN 10 and 20 POUNDER, 2 COMPARTMENT AIRWAY TUMBLERS. CUMMINGS-LANDAU LAUNDRY MACHINERY CO.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 6292-4

**AVAILABLE NOW IN YOUR LOCALITY.** Bargains in good, used equipment. **MARTIN EQUIPMENT CORPORATION**, 789-C Hertel Avenue, Buffalo, New York. 7064-4



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2 Pockets Motor Driven  
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30" x 36" American Open End Tumblers  
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## MACHINERY FOR SALE (Cont'd)

**TROY and AMERICAN LATE TYPE 6-ROLL 120" STREAMLINED FLATWORK IRONERS. READY FOR IMMEDIATE DELIVERY. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 6618-4

**WOOD WASHERS REBUILT WITH ALL NEW WOODWORK AND EQUAL TO NEW IN EVERY RESPECT. 30x30", 36x54", 42x72" and 44x84". Ready for immediate delivery. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 6661-4

**Five 42x84" AMERICAN MASTER CASCADE DOUBLE END DRIVEN MONEL WASHERS with 2 compartment, 2 door cylinders. IN EXCELLENT CONDITION. SOME EQUIPPED WITH NEW MOTORS and CONTROLS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 6910-4

**4 Tumblers, Ellis Drier Company, 48x120" Motor-driven with motor on top, three-pocket, three-door, late type machine. Price reasonable. 3128 West Lake Street, Chicago 12, Illinois.** 9146-4

**16x100" AMERICAN 41210 RETURN FEED FLATWORK IRONERS, MOTOR DRIVEN. PROSPERITY SUPER SPEEDSTER and AMERICAN SUPER ZARKO 51" BODY PRESSES. VERY REASONABLY PRICED. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 6914-4

**40" FLETCHER WHIRLWIND, 60" ZEPHYR and 63" AMERICAN OPEN TOP EXTRACTORS WITH MONEL AND STAINLESS STEEL BASKETS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 6916-4

**48" HOFFMAN AMICO, FLETCHER WHIRLWIND and AMERICAN OPEN TOP MOTOR DRIVEN EXTRACTORS. READY FOR PROMPT DELIVERY. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 6983-4

**120" RETURN FEED 2 ROLL AMERICAN and 100" COLUMBIA FLATWORK IRONERS, MOTOR DRIVEN. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 7028-4

**PROSPERITY 2 GIRL SHIRT UNIT CONSISTING OF THE FOLLOWING PRESSES—COLLAR and CUFF, BOSOM, YOKE and TWO LAY SLEEVE PRESS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 8074-4

**15 POUND AMERICAN and HOFFMAN MONEL METAL OPEN END WASHERS, MOTOR DRIVEN and 36x30" HUEBSCH and HOFFMAN OPEN END TUMBLERS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 8078-4

**AMERICAN TILTOR 4 GIRL SHIRT UNIT. THOROUGHLY REBUILT IN NEW MACHINE CONDITION. READY FOR IMMEDIATE DELIVERY. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 9014-4

**5 WATERWAY COMBINATION WASHERS and EXTRACTORS. PERFECT MACHINE FOR BLANKETS, WOOLENS and OTHER SPECIALTIES AS WELL AS COLORED WORK. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 8075-4

**IMPERIAL LAUNDRY MACHINERY COMPANY, 245 Huron Street, Brooklyn, New York, EV-9-6585, has available American Notrux 54" extractor with two extra baskets, purchased new 1945; Troy Streamline 8-roll ironer, new 1942; American 8-roll ironer; American 6-roll ironer; Ellis 54x120" 9-pocket stainless washer; American Cascade 42x84" washer; Troy 42x72" washer; American Tiltor shirt unit; Prosperity 4-girl unit and coat presses; Hoffman 42x90" tumbler; Huebsch 36x30" tumblers; Hoffman and American 48" and 60" extractors for laundries or cleaners; Hoffman 140-F unit used two months; American 30x48" Petroleum unit with filter, still, etc., brand new; Prosperity synthetic cleaning unit; DDZ 60-pound synthetic unit; Columbia synthetic unit.** 9069-4

**FLASH: TWO AMERICAN 120" STANDARD LATEST TYPE STREAMLINED FLATWORK IRONERS. IN EXCELLENT MECHANICAL CONDITION AND READY FOR IMMEDIATE DELIVERY. THESE TWO IRONERS REPRESENT EXCELLENT IRONER VALUE. INSPECTION INVITED. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 9039-4

**HOPKINS TULL 2 DOOR COMBINATION CURTAIN AND BLANKET DRYERS. PANTEX 60x84" CURTAIN and DRAPE PRESS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 9162-4

**American tumbler 20 x 20 airflow in perfect condition \$600. 5 H.P. Columbia boiler, 3 months service with return system, oil-fired, complete \$500. Write: 115 Hudson Ave., Ridgefield Park, N. J. or Phone HU-7-4885.** 9537-4

## MACHINERY FOR SALE (Cont'd)

**IMPERIAL Laundry Machinery Co., 245 Huron St., Brooklyn, N. Y. EV-9-6585, has large stock of new and rebuilt equipment on floor ready for inspection; reasonable prices and terms; one year guarantee. Individual machines or complete plants for laundry, synthetic and petroleum drycleaning furnished. List the machines you have for sale with us.** 9001-4

**2—CHICAGO 100" 6-ROLL GAS HEATED IRONERS, REBUILT AND IN FIRST-CLASS MECHANICAL CONDITION. READY FOR IMMEDIATE DELIVERY. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck St., Brooklyn 6, N. Y.** 9268-4

**44x84" AMERICAN MASTER CASCADE DOUBLE END DRIVEN 3 POCKET MONEL WASHER. 24x36" 1 POCKET 1 DOOR MONEL WASHER. BOTH MOTOR DRIVEN. CUMMINGS-LANDAU Laundry Machinery Co., Inc., 313 Ten Eyck St., Brooklyn 6, N. Y.** 9278-4

**48 x 120" SMITH DRUM, 12 COMPARTMENT 12 DOOR: 48 x 126" AMERICAN MASTER CASCADE 12 COMPARTMENT 12 DOOR, DIRECT MOTOR DRIVEN, DOUBLE END DRIVE, MONEL METAL WASHERS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 9317-4

**AMERICAN 4 ROLL 100" and 120" STANDARD FLATWORK IRONERS, COMPLETE WITH VARIABLE SPEED MOTORS. NEW MACHINE GUARANTEE. CUMMINGS-LANDAU Laundry Machinery Co., Brooklyn 6, N. Y.** 9318-4

**Prosperity Power Circle Double-Lay, Double Sleeve Press. Reasonable. PEERLESS LAUNDRY CO., 1445 E. 120th St., Cleveland, Ohio** 9344-4

**48 x 126" AMERICAN MAMMOTH CASCADE WASHERS WITH NEW ELECTRICAL EQUIPMENT AND NEW 3, 6 or 9 COMPARTMENT STAINLESS STEEL CYLINDERS. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 9368-4

**AMERICAN ZONE-AIR 4 COIL STEAM HEATED REVERSING TUMBLERS 220 Volt, 3 phase, 60 cycle. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck Street, Brooklyn 6, N. Y.** 9401-4

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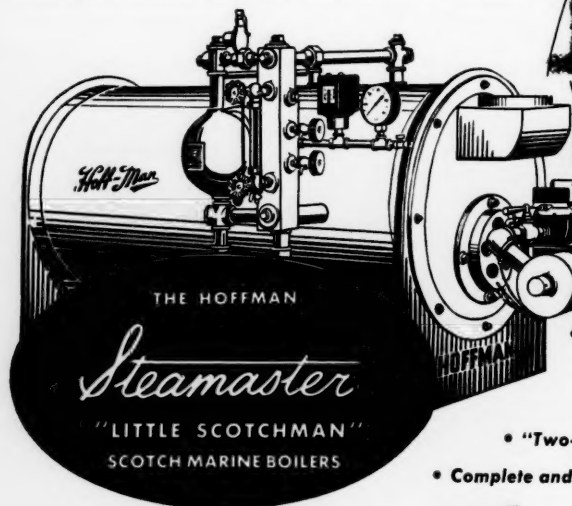
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